

TABLE OF CONTENTS

Part A: Basic Well Logging

Fundamentals of Well Logging and Well-Log Interpretation

I Books and General Review Papers

II General Log Interpretation, Reservoir Characterization, Wireline Testing

III General Petrophysics Including Core Analysis, Core Imaging and Image Analysis
(includes DSDP and ODP data)

IV Electromagnetic Logging (Including Resistivity, NMR, and Magnetic)

V MWD (Measurement While Drilling), Horizontal Wells/Drilling

VI Cased-Hole and Production Logging, Determination of ROS.

VII Acoustic Logging (Including P and S, Full Waveform, Borehole Seismic, and VSP)

VIII Nuclear Logging, Geochemical Logging (Elemental Analysis)

IX Shaly Sands (Including Thin-Bed Evaluation and Low-Contrast Pay)

X Borehole Gravimetry

XI Permeability and Determination of Permeability from Logs

XII Borehole Imaging, Downhole Video, Nearwell and Crosswell Imaging and
Tomography

XIII Temperature Logging, Determination of Static BHT, Applications of BHT Data, Heat-
Flow and Geothermics

XIV Conditions and Special Situations Affecting Tool Response

XV Crossplot Techniques and Applications

XVI Computer and Programmable Calculator Programs for Log Analysis

XVII Schlumberger International Well Evaluation Conferences

XVIII Reprint Volumes

XIX Bibliographies

XX Well-Log-Response Charts

Part B: Applications

1 General Geological Applications, Mechanical Properties, Logging for Environmental
Applications (includes DSDP and ODP data)

2 Determination of Facies and Depositional Environment

3 Identification of Depositional Environments by SP and GR Pattern, Sequence Strat

4 Dipmeter Applications

5 Applications of Artificial Intelligence (AI) and Expert Systems

6 Well-Log Data Processing (including Automated Log Correlation and Analyses)

7 Natural Gamma-Ray Spectrometry

8 Organic Carbon and Source Rock Determination

9 Tight (Low-Permeability) Gas Sandstones

10 Abnormal Pressure Detection and Evaluation

11 Oil and Gas Shales

12 Heavy Oil and Tar Sandstones

13 Coal and Coalbed Methane

14 Fracture Detection and Evaluation, Wellbore Breakouts, Analysis of In-Situ Stress

15 Permafrost and Gas Hydrates

16 Evaporites

- 17 Mineral Exploration and Evaluation
- 18 Groundwater Applications
- 19 Igneous and Metamorphic Rocks (including DSDP and ODP results)
- 20 Geothermal Well-Log Evaluation

Part C: Listing by First Author
A. First-Author Listing

PART A: BASIC WELL LOGGING
FUNDAMENTALS OF WELL LOGGING AND WELL-LOG INTERPRETATION

[Return to Main Menu](#)

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.
- Rouillac, D., 1994, Cement evaluation logging handbook: Editions Technip, 176 p.

[Return to Main Menu](#)

II. General Log Interpretation, Reservoir Characterization, and Wireline Testing
(See also III. General Petrophysics, IV. Electromagnetic Logging, IX. Shaly Sand, 18. Mineral Evaluation)

- Ahmed, U., Crary, S.F., and Coates, G.R., 1989, Permeability estimation; the various sources and their interrelationship, SPE-19604, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 649-662. Later published in 1990 as, The interrelationship between various permeability measurements, paper I, in International well logging symposium transactions: Society of Professional Well Log Analysts, Beijing Chapter, 21 p. Later published in 1991: Journal of Petroleum Technology, v. 43, no. 5, p. 578-587. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 118-127.
- Akbar, M., Petricola, M., Watfa, M., Badri, M., Charara, M., Boyd, A., Cassell, B., Nurmi, R., Delhomme, J.-P., Grace, M., Kenyon, B., and Roestenburg, J., 1995, Classic interpretation problems--evaluating carbonates: Schlumberger Oilfield Review, v. 7, no. 1, p. 4-22
- Allen, T.T., Ward, S.L., Chavers, R.D., Robertson, T.N., and Schultz, P.K., 1993, Diagnosing production problems with downhole video logging at Prudhoe Bay, SPE-26043, in Western regional meeting proceedings : Society of Petroleum Engineers,

p. 149-158. Later published in 1994, in European production operations conference and exhibition proceedings: Society of Petroleum Engineers, p. 7-16. Later published in 1994, as, Ward, S.L., Allen, T.T., Chavers, R.D., Robertson, T.N., Schultz, P.K.: Journal of Petroleum Technology, v. 46, no. 11, p. 973-978.

Amar, Z.H.B.T., Egbogah, E.O., and Nurdin, A.R.B., 1995, Core-log integration for improved formation evaluation in the Duland field, offshore peninsular Malaysia, SPE-29262, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 107-122.

Andrade, A.J.N., and Luthi, S.M., 1993, Deconvolution of wireline logs using point-spread function, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 886-891.

Anderson, B., Bryant, I., Luling, M., Spies, B., Helbig, K., 1994, Oilfield anisotropy--its origins and electrical characteristics: Schlumberger Oilfield Review, v. 6, no. 4, p. 48-56.

Austin, S., Yale, D., Page, G., and Went, D., 1994, The observation of anomalous sonic log responses in deviated wells in the southern North Sea, paper U, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Ayan, C., Colley, N., Cowanb, G., Ezekwe, E., Wannell, M., Goode, P., Halford, F., Joseph, J., Mongini, A., Obondoko, G., and Pop, J., 1994, Measuring permeability anisotropy--the latest approach: Schlumberger Oilfield Review, v. 6, no. 4, p. 24-35.

Bashore, W.M., Langan, R.T., Tucker, K.E., and Griffith, P.J., 1995, Geostatistical integration of crosswell data for carbonate reservoir modeling, McElroy field, Texas, in Stoudt, E.L., and Harris, P.M., eds., Hydrocarbon reservoir characterization--geologic framework and flow unit modeling: SEPM [Society for Sedimentary Geology] Short Course Notes No. 34, p. 199-225.

Beck, G.F., 1995, Forward modeling of deep resistivity response in Norphlet wells, paper HHH, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Behsesht, C.D., 1992, Correlation of log response to production in the Austin Chalk: Texas A&M University, College Station, Texas, unpublished M.S. thesis, 82 p.

Berg, C.R., 1995, A simple, effective-medium model for water saturation in porous rocks: Geophysics, v. 60, no. 4, p. 1070-1080.

Bigelow, E.L., 1995, The carbonate envelope, SPE-29515, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 653-664.

Bigio, D., Rike, A., Christensen, A., Collins, J., Hardman, D., Doremus, D., Tracy, P., Glass, G., Joergensen, N.B., and Stephens, D., 1994, Coiled tubing takes center stage: Schlumberger Oilfield Review, v. 6, no. 4, p. 9-23.

Bilinski, P.W., McGee, D.T., Pfeiffer, D.S., and Shew, R.D., 1995, Reservoir characterization of the "S" sand, Auger field, Garden Banks 426, 427, 470, and 471, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 75-93.

Bilodeau, B.J., 1995, Determining water saturation in diatomite using wireline logs, Lost Hills field, California, SPE-29653, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 369-382.

Bin Tajul Amar, Z.H.B.T., Egbogah, E.O., Bin Nurdin, A.R., 1995, Core-log integration for improved formation evaluation in the Dulang field, offshore peninsular Malaysia, SPE-29262, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 107-122.

Bloch, S., and Helmold, K.P., 1995, Approaches to predicting reservoir quality in sandstones: AAPG Bulletin, v. 79, no. 1, p. 97-115.

Blumentsev, A.M., Melchuk, B.Y., and Tsirulnikov, V.P., 1995, Evaluating the reliability and quality of log data interpretation: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 15 p.

Bond, A.J., Palisch, T.T., and Oakley, R.M., 1995, New pressure tool development yields critical bottomhole data, SPE-27851, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 9-16.

Boonen, P., Shook, R.A., and Brunsman, B.J., 1995, High-performance tools key to slimhole logging and perforating, part 4, Slimhole technology: Petroleum Engineer International, v. 67 no. 1, p. 43-52.

Bucheb, J.A., and Evans, H.B., 1992, Some applications of principal component analysis to well-log data [in Portuguese]: Boletim de Geosciences da Petrobras, v. 6, no. 1/2, p. 5-16. Later published in 1994 as, Some applications of methods used in electrofacies identification: The Log Analyst, v. 35, no. 1, January-February, p. 14-26. Discussion and reply published in 1994: The Log Analyst, v. 35, no. 6, p. 12-15.

Bunch, A.W.H., and Dromgoole, P.W., 1995, Lithology and fluid prediction from seismic and well data: Petroleum Geoscience, v. 1, no. 1, p. 49-57.

Campbell, B.S., 1994, Induced-polarization anomalies associated with hydrocarbon reservoirs--three case studies: Bulletin of the Association of Petroleum Geochemical Explorationists, v. 10, no. 1, p. 49-60.

Cannon, D.E., 1995, Shales--an alternate source for water resistivities, paper LLL, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Case, C.R., Flaum, C., Wraight, P.D., and DasGupta, T., 1995, Improved porosity estimation in invaded gas reservoirs using a pulsed neutron porosity device, paper X, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 9 p.

Chandu, S.N., and Rao, C.S., 1992, Identification mineralogy and gas using crossplots in Bombay High offshore area: Indian Journal of Earth Sciences, v. 19, no. 2-3, p. 114-127.

Chen, D.S., Fang, J.H., Kortright, M.E., and Chen, H.C., 1993, Novel approaches to the determination of Archie parameters, part I--simplex method, SPE-26287: Society of Petroleum Engineers, unsolicited paper, 18 p. Part II--fuzzy regression analysis, SPE-26288: Society of Petroleum Engineers, unsolicited paper, 22 p. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 39-52.

Clemenceau, G.R., 1995, Ram/Powell field--Viosca Knoll block 912, deepwater Gulf of Mexico, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 95-129.

Clerke, E.A., Williams, K.W., and Pearce, L.A., 1993, The DAK formation evaluation model for the Permian Basin Clearfork, SPE-26264: Society of Petroleum Engineers, unsolicited manuscript, 50 p. Later published in 1994: The Log Analyst, v. 36, no. 1, p. 10-27.

Collier, H.A., 1993, Borehole geophysical techniques for determining the water quality and reservoir parameters of fresh and saline water aquifers in Texas: University of Texas at Dallas, unpublished Ph.D. dissertation, 695 p. Also published in 1993: Texas Water Development Board Report 343, 2 volumes, variously paginated.

Coment Logan Group, 1990, Bulk volume and water saturation analysis for permafrost and sub-permafrost section of 5 wells, Beaufort Sea: Geological Survey of Canada Open-File Report No. 2228, 4 p.

Condessa, L.G., 1995, Hydrocarbon identification in fresh-water bearing reservoirs using dynamic Poisson's ratio--a case study, paper K, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Crocker, H., 1991, An improved wireline formation fluid sampler and tester, SPE-22971, in SPE Asia-Pacific conference proceedings: Society of Petroleum Engineers, p. 237-244.

Crouse, P.C., 1991, Reservoir characterization for horizontal wells, paper 34, in 3rd World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 15 p.

Cuddy, S., Day, S., Page, G., and Fletcher, S., 1994, The observed effects of high deviation wells on porosity measurements--a discussion of potential explanations, paper T, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 22 p.

Dake, L.P., 1994, Application of the repeat formation tester, chapter 2, in The practice of reservoir engineering: Elsevier, Amsterdam, Developments in Petroleum Science, No. 36, p. 58-67..

Dake, L.P., 1994, Oil-well testing, chapter 4, in The practice of reservoir engineering: Elsevier, Amsterdam, Developments in Petroleum Science, No. 36, p. 137-154.

Damsleth, E., and Tjolsen, C.B., 1992, Scale consistency from cores to geological description, SPE-24700, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 377-385. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 295-299.

de Kuijper, A., Sandor, R.K.J., Hofman, J.P., Koelman, J.M.V.A., Hofstra, P. and deWaal, J.A., 1995, Electrical conductivities in oil-bearing shaly sand accurately described with the SATORI saturation model, paper MM, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

de Lima, O.A.L., 1994, Hydraulic conductivity of shaly sands, SL4.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1159-1162.

de Lima, O.A.L., and Dalcin, C.L.R., 1995, Application of a new shaly sand model for

interpreting resistivity and dielectric log measurements: *The Log Analyst*, v. 36, no. 2, p. 29-41.

De Naurois, H., Last, N.C., Husband, F.J., and Palstra, M., 1995, Improving drilling performance in the Cusiana and Cupiagua fields based on measurement and interpretation of hole deterioration using time-lapsed 2 MHz electromagnetic caliper devices, paper WW, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Deans, H.A., and Mut, A.D., 1994, Chemical tracer studies to determine Sw, Sadlerochit reservoir, PBU, SPE-29591, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 291-301.

Delaune, P., 1994, A new quantitative technique to evaluate gas shows during mud logging: In Focus--Tight Gas Sands [GRI], v. 10, no. 1, p. 24-34.

Delaune, P.L., Wright, A.C., and Hanson, S.A., 1994, New quantitative technique to evaluate gas shows during mud logging operations, annual report: Gas Research Institute Report No. 94/0278, 137 p.

Desbrandes, R., and Xu, H., 1994, A new concept in wireline formation testing--extended drawdown: *The Log Analyst*, v. 35, no. 6, p. 37-46.

Disiena, J.P., and Hilterman, F.J., 1994, Density estimation from the sonic log--a case study, SL2.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1096-1099.

Dobrynin, V.M., Chernoglazov, V.N., and Gorodnov, A.V., 1995, Determination of oil saturation by the multiwave sonic log: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 13 p.

Dodge, W.S., 1994, Quantifying HIREs nuclear tool resolution in thinly bedded reservoirs using time series analysis, SPE-28797, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 527-536.

Doublet, L.E., Pande, P.K., Clark, M.B., Nevans, J.W., and Blasingame, T.A., 1995, An integrated geologic and engineering reservoir characterization of the North Robertson (Clearfork) unit--a case study, part 1, SPE-29594, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 465-491.

Dull, D.W., 1994, Geostatistical method to improve permeability estimates--application to the Mabee field, Andrews and Martin Counties, Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 23-33.

Durrani, A.J., Escovedo, B.M., Ordemann, B., Bickley, J.A., Tepper, B.J., and Simon, J.M., 1992, The rejuvenation of the 30-year-old McAllen Ranch field--an application of cross-functional team management, SPE-24872, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir engineering: Society of Petroleum Engineers, p. 67-79. Later published in 1994: *Journal of Petroleum Technology*, v. 46, no. 12, p. 1065-1072.

Duval, B.C., Imbert, P., Grosjean, Y., and Lefort, J.J., 1995, Contribution of qualitative

log analysis to reservoir management recent developments and case histories, paper KKK, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Dziuba, T.T., and Sopko, L.W., 1995, Reconciliation of water production from resistive carbonates, western Canada, paper MMM, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Eldoy, E., Rafdal, J., and Dodson, T., 1995, Formation pressure determination in high pressure high temperature wells in the Central Graben Area of the North Sea, paper EEE, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Farquhar, R.A., Somerville, J.M., and Smart, B.G.D., 1994, Porosity as a geomechanical indicator--an application of core and log data and rock mechanics, SPE-28853, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 481-489.

Fatti, J.L., Smith, G.C., Vail, P.J., Strauss, P.J., and Levitt, P.R., 1994, Detection of gas in sandstone reservoirs using AVO analysis--a 3-D seismic case history using the Geostack technique: Geophysics, v. 59, no. 9, p. 1362-1376.

Faye, R.E., and Smith, W.G., 1994, Relations of borehole resistivity to the horizontal hydraulic conductivity and dissolved-solids concentration in water of clastic coastal plain aquifers in the southeastern United States: U.S. Geological Survey Water-Supply Paper 2414, 33 p.

Fett, T., Bryant, I., and Greenstreet, C., 1994, Integration of state-of-the-art wireline reservoir delineation devices with core data from an offset well to optimize reservoir management--Maui field, New Zealand, in New Zealand petroleum conference proceedings: Petroleum Exploration Association of New Zealand, p. 231-239.

Frass, M., Coll, C., Gamero, H., and Bryant, I., 1995, Characterization of thinly-bedded reservoirs--a new approach in a sparse logged area, paper DDD, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 7 p.

Gallagher, J.G., and Hoolver, G.M., 1994, A case study on using geostatistical data integration for porosity prediction in a complex carbonate reservoir in west Texas, DP2.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 277-280.

Gamboa, P., Reis, J., and Morriss, S., 1994, Development of a log-based petrophysical model for a complex dolomitic reservoir, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 101-109.

Gawthorpe, R.L., Collier, R.E.L., Alexander, J., Bridge, J.S., and Leeder, M.R., 1993, Ground penetrating radar--application to sandbody geometry and heterogeneity studies, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 421-432.

Gidman, J., Conner, F.J., and Fisher, D.J., 1994, Deciphering core and log porosity differences and evaluating the scale dependence of core analyses in a complex lithology, paper SCA-9411, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 121-130.

Gonfalini, M., and Ponzi, M., 1995, A knowledge based system for log quality control, paper RRR, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Gorell, S.B., 1995, Using geostatistics to aid in reservoir characterization: The Leading Edge, v. 14, no. 9, p. 967-974.

Grant, N.T., and Sloan, H., 1994, Plotting log data from deviated and horizontal wells--a spreadsheet-based method: First Break, v. 12, no. 12, p. 597-604.

Grattoni, C.A., and Dawe, R.A., 1995, Influence of fluid distribution upon electrical resistivity of partially saturated media, paper II, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Gwynn, J.W., 1995, Resistivities and chemical analyses of selected oil and gas field, water well, and spring waters, Utah: Utah Geological Survey Circular 87, 142 p.

Haldorsen, H.H., and Damsleth, E., 1991, Challenges in reservoir characterisation research, in Advances in reservoir technology proceedings: The Petroleum Science and Technology Institute, London, 39 p.

Hallenburg, J.K., 1994, Formation evaluation--v. 1, Introduction to formation evaluation: James K. Hallenborg, Tulsa, Oklahoma, 165 p.

Hallenburg, J.K., 1994, Formation evaluation--v. 2, Standard logging methods (resistivity and porosity): James K. Hallenborg, Tulsa, Oklahoma, 424 p.

Han, D-H., 1994, Weak cementation effect on velocities of sands, SL1.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1069-1072.

Hansen, T., 1995, Reservoir characterization by cokriging petrophysical well data and seismic attributes: Dialog [quarterly newsletter of the London Petrophysical Society], v. 3, no. 3, p. 4-6.

Harrison, B., ed., 1995, Russian-style formation evaluation: Geological Society [London], 256 p.

Herrera, R., Samaniego, F., and Hernandez, F., 1994, On the petrophysics of carbonate reservoirs through whole core analysis, SPE-28675, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 71-80.

Hill, J.A., Soo, D.K.Y., and Verriah, T., 1992, Geological Society of Malaysia Bulletin, v. 32, p. 15-43.:

Holbrook, P.W., Maggiori, D.A., and Hensley, R., 1993, Real-time pore pressure and fracture gradient evaluation in all sedimentary lithologies, SPE-26791, in Offshore Europe 93 proceedings, v. 2: Society of Petroleum Engineers, p. 395-408. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 117-129.

Holditch, S.A., and Yao, C.Y., 1993, Estimating permeability in the Wilcox "G" Sandstone in the Lake Creek unit well no. 48 using data from logging measurements, topical report: Gas Research Institute Report GRI-93/0390, 71 p.

Holstein, E.D., and Warner, H.R., Jr., 1994, Overview of water saturation determination

for the Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28573, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 67-76.

Huey, D.P., and Storms, M.A., 1995, Deepwater drilling tools, Part 3--Modified wire line tools improved open hole logging operations: Oil and Gas Journal, v. 93, no. 5, January 30, p. 94-97.

Hurst, A., and Nadeau, P., 1994, Estimation of water saturation from clay microporosity data, SPE-28850, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 451-458.

Hurst, A., and Nadeau, P., 1994, A little clay - volumes of problems, paper A, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 21 p.

Hurst, A., and Nadeau, P.H., 1995, Clay microporosity in reservoir sandstones--an application of quantitative electron microscopy in petrophysical evaluation: AAPG Bulletin, v. 79, no. 4, p. 563-573.

Hutchinson, M.W., 1991, Comparisons of MWD, wireline, and core data from a borehole test facility, SPE-22735, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 741-754. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 38-51.

Idowu, A.O., 1993, Reservoir fluid differentiation case history from an offshore Niger Delta field: Geoinformatics [Geological Data Processing], v. 4, no. 3, p. 291-300.

Imamura, S., 1994, Integrated interpretation of exploration data in geotechnical engineering--an approach using fuzzy theory, CT1.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 202-205.

Imazumi, T., and Kozawa, T., 1994, Gas reservoir delineation by shear wave VSP [abs.], G042, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Ingerman, V.G., 1995, Statistical integration of log data for lithology determination and formation evaluation: The Log Analyst, v. 36, no. 3, p. 38-48.

Jeans, C.V., 1994, Clay diagenesis, overpressure and reservoir quality--an introduction: Clay Minerals, v. 29, p. 415-424.

Jennings, J.B., 1987, Capillary pressure techniques--application to exploration and development geology: AAPG Bulletin, v. 71, no. 10, p. 1196-1209. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 67-80.

Jensen, J.L., Corbett, P.W.M., and Glasbey, C.A., 1994, On the interaction of geology, measurement, and statistical analysis of small-scale permeability measurements: Terra Nova, v. 6, no. 4, p. 397-403.

Johnson, W.E., 1995, Direct detection of gas in pre-Tertiary sediments?: The Leading Edge, v. 14, no. 2, p. 119-122.

Katahara, K.W., 1995, Gamma ray log response in shaly sands: The Log Analyst, v. 36, no. 4, p. 50-55.

Keys, W.S., Hoffman, G.L., and Pawlowicz, J.G., 1990, General methods of analyzing geophysical logs and core data, chapter 2, in Hoffman, G.L., Fenton, and Pawlowicz,

J.G., eds., Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 15 p.

Keys, W.S., Mwenifumbo, C.J., and Hulatt, E.W., 1990, Potentially applicable new tools, chapter 7, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 20 p.

Kirkman, M., and Seim, P., 1989, Depth measurements with wireline and MWD logs: Society of Professional Well Log Analysts, Norwegian Chapter short course. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 27-33.

Kopaska-Merkel, D.C., and Mann, S.D., 1994, Classification of lithified carbonates using ternary plots of pore facies--examples from the Jurassic Smackover Formation, chapter 20, in Carbonate microfabrics symposium proceedings: Texas A&M University, College Station, Texas, *Frontiers in Sedimentary Geology Series*, p. 265-277.

Kopaska-Merkel, D.C., and Schmoker, J.W., 1994, Regional porosity evolution in the Smackover Formation of Alabama: Carbonates and Evaporites, v. 9, no. 1, p. 58-75.

Kozhevnikov, D.A., Lazutkina, N.Y., and Sokolova, T.F., 1995, Complex reservoir studies and evaluation: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 9 p.

Kramers, J., Yuan, L-P., Bachu, S., and Cuthiell, D., 1990, Reservoir characterization case study--sandy facies, in Bachu, S., ed., 5th Canadian/American conference on hydrogeology: National Water Well Association, Dublin, Ohio, [also Alberta Research Council Information Series 116] p. 72-86.

Lee, T.-C., and Damiata, B.N., 1995, Distortion in resistivity logging at shallow depth: *Geophysics*, v. 60, no. 4, p. 1058-1069.

Lewis, J., Arnot, M., Corbett, P., Feghi, F., Good, T., Jensen, J., Pelling, R., Pickup, G., Ringrose, P., and Sorbie, K., 1994, Reservoir description research: *Geoscientist*, v. 3, no. 1, p. 7-12.

Lin, J.L., and Salisch, H.A., 1994, Determination from well logs of porosity and permeability in a heterogeneous reservoir, SPE-28792, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 495-506.

Lind, I., Nykjaer, O., Priisholm, S., and Springer, N., 1992, Permeability of stylolite-bearing chalk, SPE-26019: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1994: *Journal of Petroleum Technology*, v. 46, no. 11, p. 986-993.

Lo, T-W., and Bermawi, A., 1994, Reservoir characterization with sequential Gaussian simulation constrained by diffraction tomography, DP2.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 273-276.

Lund, H-J., Ates, H., Kasap, E., and Tillman, R.W., 1995, Comparison of single and multi-facies variograms of Newcastle Sandstone--measures for the distribution of barriers to flow, SPE-29596, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 507-522.

Marzouk, I., Takezaki, H., and Miwa, M., 1995, Geologic controls on wettability of

carbonate reservoirs, Abu Dhabi, U.A.E., SPE-29883, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 449-460.:

Mattar, L., 1995, Reservoir pressure analysis--art or science?: Journal of Canadian Petroleum Technology, v. 34, no. 3, p. 1316.

Matyas, V., 1995, Application of Kruskal multidimensional scaling (MDS) to rock type identification from well logs: The Log Analyst, v. 36, no. 1, p. 28-34.

McCoy, D.D., and Grieves, W.A., 1994, Use of resistivity logs to calculate water saturation in the Prudhoe Bay field, SPE-28578, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 131-143.

McCoy, D.D., Warner, H.R., Jr., and Fisher, T.E., 1994, Water salinity variations in the Ivishak and Sag River reservoirs, Prudhoe Bay field, SPE-28577, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 117-129.

Mezzatesta, A.G., Eckard, M.H., Payton, C.C., and Strack, K-M., 1995, Integrated interpretation of galvanic and induction measurements by inversion methods, SPE-29839, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 597-605.

Michaels, J., Moody, M., and Shwe, T., 1995, Advances in wireline formation testing, paper BBB, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Moos, D., Hara, S., Phillips, C., Hooks, A., and Tagbor, K., 1995, Field test of acoustic logs for measuring porosity and oi saturation in a mature waterflood in the Wilmington field, California, SPE-29655, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 395-408.

Mulholland, J.W., 1994, Sequence stratigraphic correlation of well-log cross sections: The Mountain Geologist, v. 31, no. 3, July, p. 65-75.

Negrao, D.S. de O., and Luthi, S., 1993, Determining the hydrocarbon saturations in reservoir rocks with fresh formation water, Pilar field, Alagoas--Sergipe basin, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 1, p. 336-339.

Nieto, J.A., Schmitt, D.P. and Keys, R.G., 1995, Removal of borehole induced noise from well logs, paper III, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Nurmi, R., Wiltse, E., and Sapnu, A., 1995, Middle East reservoir characterization improved by data from horizontal wells, SPE-29816, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 445-451.

Olsen, J.E., Kristensen, R., and Taylor, R.W., 1995, Case histories in the Europe/Africa area demonstrate improved capabilities of fiber-optic video camera technology, SPE-29300, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 421-432.

Oraby, M.E., 1995, A lithology independent through casing porosity and water saturation model LIPS, SPE-29516, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 665-682.

Oraby, M.E., Dang, T.T., and Brady, J., 1995, A new quantitative methodology for gas saturation determination and its applications in Prudhoe Bay, paper RR, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Pampuri, F., and Puricelli, R., 1993, The use of the complex trace attributes of digital sonic waveforms as a gas indicator in thin shaly-sand sequences in southern Italy, in Spencer, A.M., ed., Generation, accumulations and production of Europe's hydrocarbons III: Springer-Verlag, Berlin, European Association of Petroleum Geologists Special Publication No. 3, p. 259-265.

Pande, P.K., Clark, M.B., Blasingame, T.A., and Doublet, L., 1994, Data acquisition design and implementations--in mature reservoirs, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 65-78.

Petersilie, V.I., and Yatsenko, G.G., 1995, Assessment of parameters of oil and gas pools from well logs and core data: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 27 p.

Petricola, M.J.C., and Watfa, M., 1995, Effect of microporosity in carbonates--introduction of a versatile saturation equation, SPE-29841, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 607-615.:

Powell, B.N., and Lovell, G.L., 1994, Mechanisms of chalk compaction, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 811-818

Prilipko, I.P., 1994, New parameters in differentiation of complex collectors [reservoirs], using logging data: Geophysical Journal, v. 14, no. 1, p. 107-112.

Proett, M.A., Waid, M.C., and Kessler, C., 1994, Real time transient analysis methods applied to wireline formation test data, SPE-28449, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 891-906.

Ramamoorthy, R., Murphy, W.F., and Coll, C., 1995, Total porosity estimation in shaly sands from shear modulus, paper H, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Ramm, M., Bjorlykke, K., 1994, Porosity/depth trends in reservoir sandstones--assessing the quantitative effects of varying pore-pressure, temperature history and mineralogy, Norwegian shelf data: Clay Minerals, v. 29, p. 475-490.

Reif, L.T., and Kinsland, G.L., 1993, Analysis of the relationship between seismic amplitudes and gas content of the Miocene Amos Sandstone, Marry Ann field, offshore Alabama: Gulf Coast Association of Geological Societies Transactions, v. 43, p. 327-332.

Remeljej, C.W., 1994, Statistical method to determine whether a wireline water sample is 100% mud filtrate, SPE-28796, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 517-526.

Renoux, P., 1993, Identification of potassic sequences in an evaporitic series [in French]: Geologues, no. 100-101, p. 49-54.

Renoux, P., and Etienne, C., 1992, 3-D seismic and well logging study of a west

Siberian lowland oil and gas field--application to petrophysical characterization, in Sheriff, R.E., ed., Reservoir geophysics: Society of Exploration Geophysicists, v. 259-280.

Reyes, M.V., 1993, The application of fluorescence techniques for mudlogging analysis of oil drilled with oil-based muds, SPE-25255, in SPE Asia Pacific oil and gas conference and exhibition proceedings: Society of Petroleum Engineers, p. 319-336. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 300-305.

Richardson, J.G., Holstein, E.D., Rathmell, J.J., and Warner, H.R., Jr., 1994, Investigation of as-received oil-bas-core water saturations from the Ivishak reservoir, Prudhoe Bay field, SPE-28592, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 303-318.

Saha, S., Al-Kaabi, A.U., Amabeoku, M.O., and Al-Fossail, K., 1995, Core-log integration for a Saudi Arabian sandstone reservoir, SPE-29867, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 293-309.: Sanders, L., 1994, Well log evaluation of the Wolfcamp sandstones, Terrell County, Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 87-92.

Saner, S., Cagatay, M.N., and Al Fossail, K., 1994, Shaliness effect on the log-derived Archie cementation factor--study of a Saudi Arabian sandstone reservoir: The Log Analyst, v. 35, no. 6, p. 16-27.

Santarelli, F.J., and Carminati, S., 1995, Do shales swell? A critical review of available evidence, SPE/IADC-29421, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 741-756.

Schenewerk, P., Goddard, D., and Echols, J., 1994, Reservoir characterization and preliminary modeling of deltaic facies, Lower Wilcox, Concordia Parish, Louisiana: Gulf Coast Association of Geological Societies Transactions, v. 44, p. 664-674.

Sim, S.K., Seyler, B., and Udegbumam, E.O., 1994, An integrated geologic and engineering study of the Plumfield lease Aux Vases reservoirs, Zeigler field, Franklin County, Illinois: Illinois State Geological Survey, Illinois Petroleum No. 146, 29 Skelt, C., 1995, An integrated approach to saturation height analysis, paper NNN, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Smalley, P.C., and Warren, E.A., 1994, North Sea formation waters--implications for diagenesis and production chemistry: Marine and Petroleum Geology, v. 11, no. 1, p. 2-4.

Smalley, P.C., Dodd, T.A., Stockden, I.L., Raheim, A., and Mearns, E.W., 1995, Compositional heterogeneities in oilfield formation waters--identifying them, using them, in Cubitt, J.M., and England, W.A., eds, The geochemistry of reservoirs: Geological Society [London] Special Publication No. 86, p. 59-69.

Smith, Bubba, 1994, Logging and production problems associated with clay-bound Jackson Series sandstones: South Texas Geological Society Bulletin, v. 34, no. 6, p. 11-20.

Smits, A.R., Fincher, D. V., and Nishida, K., Mullins, O.C., and Schroeder, R.J., 1993, In-situ optical fluid analysis as an aid to wireline formation sampling, SPE-26496, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 807-817. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 91-98.

Sneider, R.M., and Erickson, J.W., 1994, Rock types, depositional history, and diagenetic effects--Sadlerochit reservoir, Prudhoe Bay field, SPE-28575, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 85-100.

Sneider, R.M., King, H.R., Stolper, K.K., Kulha, J.T., 1995, Impact of Archie "m" on evaluating conventional and low resistivity pay [abs.], in 1995 AAPG annual convention official program, v. 4, Houston: AAPG, p. 90A. Text and figures of poster are available from BK Geo Services, 11991 Cochise Circle, Conifer, CO 80433.

Soudet, H.-J., Sorriaux, P., and Rolando, J.-P., 1994, Relationship between fractures and karstification; the oil bearing paleokarst of Rospo Mare (Italy) [in French]: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 1, p. 257-297.

Stalheim, S.O., and Eidesmo, T., 1995, Is the saturation exponent 'n' a constant?, paper SSS, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Strathouse, E.C., 1995, Whole core of middle Pleistocene pay zones in Garden Banks block 171, Gulf of Mexico, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 131-147.

Thomerson, M.D., 1992, Petrophysical analysis of the Brushy Canyon Formation, Hat Mesa Delaware field, Lea County, New Mexico: Texas Tech University, Lubbock, Texas, unpublished MS thesis, 124 p.

Ti, G., Ogbé, D.O., Munly, W., and Hatzignatiou, D.G., 1993, The use of flow units as a tool for reservoir description--a case study, SPE-26919, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 293-306. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 122-128.

Tingey, J.C., Nelson, R.J., and Newsham, K.E., 1995, Comprehensive analysis of Russian petrophysical measurements, paper S, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Tompkins, B.C., 1990, An integrated core-well log study and stratigraphic correlation of the Lower Cretaceous Mannville Group, Lloydminster sub-basin, west-cent Saskatchewan and east-central Alberta: Calgary University, Calgary, Alberta, unpublished M.S. thesis, 372 p.

Toporkov, V.G., and Duzin, V.I., 1995, Oil saturation determination in grauwacke reservoirs with abnormally high water saturation: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 8 p.

Truman, R.B., Howard, W.A., Davies, D.K., and Vessell, R.K., 1986, Utilization of rock characterization data to improve well log interpretation, paper V, in 27th annual logging symposium transactions: Society of Professional Well Log Analysts, 19 p. Later

reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 159-179.

van den Bosch, R., Fulop, A., and Pistre, V., 1995, Permeability prediction from well logs--a case study in German Rotliegend sandstones, paper NN, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Warren, E.A., and Smalley, P.C., eds., 1994, *North Sea formation water atlas: The Geological Society [London] Memoir No. 15*, 208 p.

Wong, P.M., Jian, F.X., and Taggart, I.J., 1995, A critical comparison of neural networks and discriminant analysis in lithofacies, porosity, and permeability predictions: *Journal of Petroleum Geology*, v. 18 no. 2, p. 191-206.

Wong, P.M., Taggart, I.J., and Jian, F.X., 1994, Integration of seismic, wireline logs, and core data into a genetic characterisation framework: *APEA [Australian Petroleum Exploration Association] Journal*, v. 34, part 1, p. 337-349.

Worthington, P., 1994, Verification of water-saturation algorithms through dual-salinity desaturations, paper B, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 29 p.

Worthington, P., 1995, Estimation of intergranular permeability from well logs: *Dialog [quarterly newsletter of the London Petrophysical Society]*, v. 3, no. 3, p. 7-10.

Xu, H., Fear, M., Whelehan, O., Ford, J., and Jensen, J., 1995, How to organise mud logging data for modelling rate of penetration, SPE-29252, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 31-38

Xu, H., Fear, M., Whelehan, O., Ford, J., and Jensen, J., 1995, How to organise mud logging data for modelling rate of penetration, SPE-29252, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 31-38.

Xu, S., and White, R., 1995, Poro-elasticity of clastic rocks--a unified model, paper V, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Yildiz, T., and Bassiouni, Z., 1992, Interpretation of wireline formation test data in tight gas sands, paper 92-20, in 43rd annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

Zainun, K., and Rice, M.L., 1995, Optimized exploration resource evaluation using the MDT tool, SPE-29270, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 177-194.

Zizi, K., 1994, Dry rock model prediction to be used in Biot-Gassmann-Domenico equations for computing acoustic properties of a carbonate rock, PP7.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 814-817.

[Return to Main Menu](#)

III. General Petrophysics Including Core Analysis, Core Imaging, and Image Analysis

(See also II. General Log Interpretation, IV. Electromagnetic Logging, IX. Shaly Sands)

Akbar, M., Petricola, M., Watfa, M., Badri, M., Charara, M., Boyd, A., Cassell, B., Nurmi, R., Delhomme, J.-P., Grace, M., Kenyon, B., and Roestenburg, J., 1995, Classic interpretation problems--evaluating carbonates: Schlumberger Oilfield Review, v. 7, no. 1, p. 4-22

Al-Yousef, H.Y., Lichaa, P.M., Al-Kaabi, A.U., and Alpustun, H., 1995, Wettability evaluation of a carbonate reservoir rock from core to pore level, SPE-29885, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 461-476.

Ali, M.T.H.A., 1991, Factors affecting mercury capillary pressure measurements: King Fahd University, Saudi Arabia, unpublished MS thesis, 246 p.

Altunbay, M., Barr, D.C., Kennaird, A.F., and Manning, D.K., 1994, Numerical geology--predicting depositional and diagenetic facies from wireline logs using core data, SPE-28794, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 507-515.

Amabeoku, M.O., Mimoune, K., and Al-Nufaili, S., 1995, Lithological variability of electrical parameters in a sandstone sequence, SPE-29889, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 531-546.

Amar, Z.H.B.T., Egbogah, E.O., and Nurdin, A.R.B., 1995, Core-log integration for improved formation evaluation in the Duland field, offshore peninsular Malaysia, SPE-29262, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 107-122.

Bachu, S., Cuthiell, D., and Kramers, J., 1990, Effects of core scale heterogeneities on fluid flow in a clastic reservoir, in Agterberg, F.P., and Bonham-Carter, G.F., eds., Statistical applications in the earth sciences: Geological Survey of Canada Paper 89-9, p. 517-523.

Basan, P., Hook J.R., and Hughes, K., Rathmell, J., and Thomas, D.C., 1988, Measuring porosity, saturation and permeability from cores--An appreciation of the difficulties: The Technical Review, v. 36, no. 4, October, p. 22-36. Later reprinted in 1991, in Canadian Heavy Oil Association reservoir handbook: Canadian Heavy Oil Association, Calgary, p. 49-66. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 190-204.

Basan, P., Howard, J., Lahann, R., Prichard, T., Attard, J., and Camden, D., 1994, Variations in NMR relaxivity and its relationship to pore size in sandstones from the South Morecambe Field, Irish Sea, paper AA, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 39 p.

Bentsen, R.G., 1994, Effect of hydrodynamic forces on capillary pressure and relative permeability: Transport in Porous Media, v. 17, p. 121-132.

Berg, C.R., 1995, A simple, effective-medium model for water saturation in porous rocks: Geophysics, v. 60, no. 4, p. 1070-1080.

Berkowitz, B., and Farouq, S.M., 1994, An analysis of two automatic history-matching procedures for estimation of subsurface reservoir properties: Israel Journal of Earth Sciences, v. 43, p. 239-247.

Bertin, H., Graue, A., and Eilertsen, T., 1994, Two dimensional imaging of viscous and capillary effects in a dipping stratified heterogeneous media, paper SCA-9413, in SCA

international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 141-148.

Best, M.E., and Katsube, T.J., 1995, Shale permeability and its significance in hydrocarbon exploration: *The Leading Edge*, v. 14, no. 3, p. 165-170.

Bigelow, E.L., 1995, The carbonate envelope, SPE-29515, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 653-664.

Bilinski, P.W., McGee, D.T., Pfeiffer, D.S., and Shew, R.D., 1995, Reservoir characterization of the "S" sand, Auger field, Garden Banks 426, 427, 470, and 471, in *Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20*, p. 75-93.

Bin Tajul Amar, Z.H.B.T., Egbogah, E.O., Bin Nurdin, A.R., 1995, Core-log integration for improved formation evaluation in the Dulang field, offshore peninsular Malaysia, SPE-29262, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 107-122.

Boebe, M., 1994, Rock Permeability determination by using a minipermeameter [in German]: *Erdoel Erdgas Kohle*, v. 110, no. 2, p. 58-61.

Bonner, B.P., Roberts, J.J. and Schneberk, D.J., 1994, Determining water content and distribution in reservoir graywacke from the northeast Gysers with X-ray computed tomography: *Geothermal Resources Council Transactions*, v. 18, p. 305-310.

Boukadi, F.B.H., Watson, R., and Owolabi, O., 1992, The influence of reservoir rocks skeletal properties on ultimate oil recovery in radial-core waterfloods, paper 92-55, in 43rd annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

Bouvier, L., and Maquignon, S., 1994, Effect of procedure on wettability index to water, paper SCA-9422, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 237-248.

Bowers, M.C., 1993, The use of nuclear magnetic resonance, permeability, and diffusion to characterize the porous microstructure of sandstones: University of South Carolina, unpublished Ph.D. thesis, 166 p.

Bowers, M.C., Ehrlich, R., Howard, J.J., and Kenyon, W.E., 1995, Determination of porosity types from NMR data and their relationship to porosity types derived from thin section: *Journal of Petroleum Science and Engineering*, v. 13, p. 1-14.

Brancolini, A., Mackenzie, I.S., Radaelli, F. and Rossi, E., 1995, X-ray CT evaluation of poorly consolidated, thin-bedded core, paper CCC, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 8 p.

Breitzke, M., and Spieb, V., 1993, An automated full waveform logging system for high-resolution P-wave profiles in marine sediments: *Marine Geophysical Researches*, v. 15, p. 297-321.

Butler, D.B., and Knight, R.J., 1995, The effect of steam quality on the electrical behavior of steam-flooded sands--a laboratory study: *Geophysics*, v. 60, no. 4, p. 998-1006.

Bykov, V.G., 1994, Vp/Vs ratio and physico-mechanical properties of rocks: *Geology of the Pacific Ocean*, v. 11, no. 1, p. 135-150.

Cade, C.A., Evans, I.J., and Bryant, S.L., 1994, Analysis of permeability controls--a new

approach: Clay Minerals, v. 29, p. 491-501

Carati, C., and Maddinelli, G., 1994, NMR spectroscopy and relaxation--powerful tools for estimating residual fluids and petrophysical parameters, paper K, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 12 p.

Castagna, J.P., Han, D-H., and Batzle, M.L., 1995, Issues in rock physics and implications for DHI [direct hydrocarbon indicator] interpretation: The Leading Edge, v. 14, no. 8, p. 883-885.

Castrejon-Vacio, F., and Porres-Luna, A.A., 1994, Use of seismic attributes in geological description of carbonate rocks, SPE-28673, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 49-60.

Causin, E., and Bona, N., 1994, In-situ wettability determination--field data analysis, SPE-28825, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 189-198.

Chandler, R., 1995, NMR hardware history and MRIL, chapter 6, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Charlson, G.S., DeRuijter, R.A., Spence, A.P., and Warner, H.R., Jr., 1994, Application of oil-base mud pressure coring to the determination of in-situ water saturations, SPE-28595, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 327-334.

Chawathe, A., and Sharma, M.P., 1991, Effects of temperature on the permeability of porous media, in Eaton, R.R., Kaviany, M., Sharma, M.P., Vafai, K., and Udell, K.S., eds., Multiphase transport in porous media--1991: The American Society of Mechanical Engineers, FED, v. 122, p. 117-123.

Chen, D.S., Fang, J.H., Kortright, M.E., and Chen, H.C., 1993, Novel approaches to the determination of Archie parameters, part I--simplex method, SPE-26287: Society of Petroleum Engineers, unsolicited paper, 18 p. Part II--fuzzy regression analysis, SPE-26288: Society of Petroleum Engineers, unsolicited paper, 22 p. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 39-52.

Chen, S., Liaw, H.K., and Watson, A.T., Fluid saturation-dependent nuclear magnetic resonance spin-lattice relaxation in porous media and pore structure analysis, : Journal of Applied Physics, v. 74, no. 3, p. 1473-1479.

Chen, S., Yao, X., Qiao, J., and Watson, A.T., 1994, Characterization of fractures and multiphase flow in fractured permeable rocks using NMR imaging techniques, paper SCA-9402, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 17-28.

Chen, Z.A., and Ruth, D.W., 1994, Centrifuge capillary pressure data interpretation: gravity degradation aspect consideration, paper SCA-9425, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 275-284.

Clemenceau, G.R., 1995, Ram/Powell field--Viosca Knoll block 912, deepwater Gulf of Mexico, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary

Geology] Core Workshop No. 20, p. 95-129.

Clerke, E.A., Williams, K.W., and Pearce, L.A., 1993, The DAK formation evaluation model for the Permian Basin Clearfork, SPE-26264: Society of Petroleum Engineers, unsolicited manuscript, 50 p. Later published in 1994: *The Log Analyst*, v. 36, no. 1, p. 10-27.

Coates, G.R., Miller, D.L., Mardon, D., and Gardner, J.S., 1995, Applying log measurements of restricted diffusion and T2 to formation evaluation, paper P, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Coles, M.E., Spanne, P.E., Muegge, L., and Jones, K.W., 1994, Computed microtomography of reservoir core samples, paper SCA-9401, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 9-16.

Coment Logan Group, 1990, Bulk volume and water saturation analysis for permafrost and sub-permafrost section of 5 wells, Beaufort Sea: Geological Survey of Canada Open-File Report No. 2228, 4 p.

Corbett, P.W.M., and Jensen, J.L., 1993, Quantification of variability in laminated sediments--a role for the probe permeameter in improved reservoir characterization, in North, C.P., and Prosser, D.J., eds., *Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73*, p. 433-442.

Corbett, P.W.M., Stromberg, S.G., Brenchley, P.J., and Geehan, G., 1994, Laminaset geometries in the fine grained shallow marine sequences--core data from the Rannoch Formation (North Sea) and outcrop data from the Kennilworth Member (Utah, USA) and the Bencliff Grit (Dorset, UK): *Sedimentology*, v. 41, p. 729-745.

Coshell, L., McIver, R.G., and Chang, R., 1994, X-ray computed tomography of Australian oil shales--non-destructive visualization and density determination: *Fuel*, v. 73, no. 8, p. 1317-1321.

Cowan, G., 1993, Identification and significance of aeolian deposits within the dominantly fluvial Sherwood Sandstone Group of the East Irish Sea basin UK, in North, C.P., and Prosser, D.J., eds., *Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73*, p. 231-245.

Crawford, B., Smart, B., Main, I., and Dolan, S., 1994, The micromechanics of deformation under true 3-d stress anisotropy from permeability-microseismics experimentation, paper G, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 16 p.

Czubek, J.A., Drozdowicz, K., Gabanska, B., Igielski, A., Krynicka, E., and Woznicka, U., 1995, Sigma-Sa laboratory measurements for geological samples (by pulsed method), paper R, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Dale, M.R., 1992, Assessing the relationship of pore geometry to petrophysical properties and well log data from the Lower Tuscaloosa B Member, St Helena's Parish, Louisiana: University of Southwestern Louisiana, Lafayette, unpublished MS thesis, 124 p.

Damsleth, E., and Tjolsen, C.B., 1992, Scale consistency from cores to geological

description, SPE-24700, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 377-385. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 295-299.

de Kuijper, A., Sandor, R.K.J., Hofman, J.P., Koelman, J.M.V.A., Hofstra, P. and deWaal, J.A., 1995, Electrical conductivities in oil-bearing shaly sand accurately described with the SATORI saturation model, paper MM, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

de Waal, J.A., Smits, R.M.M., de Graaf, J.D., and Schipper, B.A., 1989, Measurement and evaluation of resistivity-index curves, paper II, in 30th annual logging symposium transactions: Society of Professional Well Log Analysts, ? p. Later published in 1991: The Log Analyst, v. 32, no. 5, p. 583-595. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 81-83.

Dodge, W.S., Shafer, J.L., and Guzman-Garcia, A.G., 1995, Core and log NMR measurements of an iron-rich glauconitic sandstone reservoir, paper O, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Domenico, N., 1995, Poisson's ratio--an interdisciplinary link?: The Leading Edge, v. 14, no. 9, p. 983-986

Doughty, D.A., and Tomutsa, L., 1993, Investigation of wettability by NMR microscopy and spin-lattice relaxation: U.S. Department of Energy Report NIPER-720, 11 p.

Durand, C., 1994, Distribution of clays in sandstones by image analysis--quantification, representativity and effects on petrophysical properties, paper SCA-9414, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 149-162.

Durandea, M., El-Emam, M., Anis, A.-H., and Fanti, G., 1995, Successful field evaluation of the efficiency of a gas gravity drainage process by applying recent developments in sponge coring technique in a major oil field, SPE-29809, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 367-377.

Durandea, M., El-Emam, M., Anis, A.-H., and Fanti, G., 1995, Successful field evaluation of the efficiency of a gas gravity drainage process by applying recent developments in sponge coring techniques in a major oil field, SPE-29809, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 367-377.

Dvorkin, J., Mavko, G., and Nur, A., 1991, The effect of cementation on the elastic properties of granular material: Mechanics of Materials, v. 12, p. 207-217.

Ehrlich, R., Crabtree, S.J., Horkowitz, K.O., and Horkowitz, J.P., 1991, Petrography and reservoir physics, part 1--objective classification of reservoir porosity: AAPG Bulletin, v. 75, no. 10, p. 1547-1563. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 5-20.

El-Khatib, N., 1995, Development of a modified capillary pressure J-function, SPE-29890, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 547-562.:

Elashahab, B.M., Jing, X.D. and Archer, J.S., 1995, The effects of temperature and wettability on resistivity index measurements on rock samples, paper AAA, in 36th

annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Elashahab, B.M., Jing, X.D., and Archer, J.S., 1995, Resistivity index and capillary pressure hysteresis for rock samples of different wettability characteristics, SPE-29888, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 519-529.:

Fett, T., Bryant, I., and Greenstreet, C., 1994, Integration of state-of-the-art wireline reservoir delineation devices with core data from an offset well to optimize reservoir management--Maui field, New Zealand, in New Zealand petroleum conference proceedings: Petroleum Exploration Association of New Zealand, p. 231-239.

Fleury, M., Lenormand, R., and Deflandre, F., 1994, Interpretation of centrifuge data using local saturation, paper SCA-9428, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 305-.

Fluery, M., and Forbes, 12 p., 1995, Experimental evidence of radial effects on centrifuge capillary pressure curves, paper EE, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Forsans, T.M., and Schmitt, L., 1994, Capillary forces--the neglected factor in shale instability studies?, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 71-84.

Gamble, I.J.A., Buller, D.C., and Sinock, K.J., 1994, Reconciliation of field observations in a North Slope reservoir through pore fluid microvisualisations, SPE-28855, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 507-519.

Garrouch, A., 1993, Dielectric properties of fluid-saturated rocks: University of Texas at Austin, unpublished Ph.D thesis, 212 p.

Garrouch, A.A., and Lababidi, H.M.S., 1995, An inverted petrophysical model for shale sands: In Situ, v. 19, no. 2, p. 125-153.

Gauchet, R., 1994, Effects of core sample dimensions and orientation on two-phase flow properties determination, paper SCA-9412, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 131-140.

Gazaniol, D., Forsans, T., Boisson, M.J.F., and Piau, J-M., 1994, Wellbore failure mechanisms in shales--prediction and prevention, SPE-28851, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 459-471

Gendzwill, D.J., 1993, Seismic velocity, fracture density and anisotropy of some Manitoba limestones: Canadian Journal of Exploration Geophysics, v. 29, no. 1, p. 153-162.

Georgi, D.T., editor, 1995, Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Gidman, J., Conner, F.J., and Fisher, D.J., 1994, Deciphering core and log porosity differences and evaluating the scale dependence of core analyses in a complex lithology, paper SCA-9411, in SCA international symposium proceedings: Society of

Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 121-130.

Grattoni, C.A., and Dawe, R.A., 1994, Electrical resistivity anisotropy due to pore scale structure, paper SCA-9416, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 173-182.

Greder, H.N., Mus, E.A., Veillerette, A.M. and Pellerin, F.M., 1995, Derivation of a core permeability log and extrapolation to uncored intervals, paper KK, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Guest, K., 1990, The use of core-derived quantitative mineralogical data to improve formation evaluation, in Worthington, P.F., ed., Advances in core evaluation, accuracy, and precision in reserves estimation [Reviewed proceedings of the first Society of Core Analysts European core analysis symposium, May 21-23, London, UK]: Gordon and Breach Science Publishers, New York, p. 187-209. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 21-43.

Gurevich, B., and Lopatnikov, S.L., 1995, Velocity and attenuation of elastic waves in finely layered porous rocks: Geophysical Journal International, v. 121, no. 3, p. 933-947.

Gwynn, J.W., 1995, Resistivities and chemical analyses of selected oil and gas field, water well, and spring waters, Utah: Utah Geological Survey Circular 87, 142 p.

Hall, D.J., Adamick, J.A., Skoyles, D., DeWildt, J., and Erickson, J., 1995, AVO as an exploration tool--Gulf of Mexico case studies and examples: The Leading Edge, v. 14, no. 8, p. 863-868.

Hansen, T., 1995, Reservoir characterization by cokriging petrophysical well data and seismic attributes: Dialog [quarterly newsletter of the London Petrophysical Society], v. 3, no. 3, p. 4-6.

Harris, J.M., Nolen-Hoeksema, R.C., Langan, R.T., van Schaack, M., Lazaratos, S.K., and Rector, J.W., III, 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, par 1--summary and interpretation: Geophysics, v. 60, no. 3, p. 667-681.

Harvey, P., Jackson, P., Lovell, M., Ashu, A., and Williamson, G., 1994, High resolution electrical imaging of aeolian sandstones, paper J, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 8 p.

Herrera, R., Samaniego, F., and Hernandez, F., 1994, On the petrophysics of carbonate reservoirs through whole core analysis, SPE-28675, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 71-80.

Herrick, D.C. , and Kennedy, W.D., 1995, Formation resistivity factor and permeability relationships in rocks characterization by secondary solution porosity, paper QQQ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hicks, P.J., Jr., and Deans, H.A., 1992, Effect of permeability distribution on miscible displacement in a heterogeneous carbonate core, paper CIM 92-10, in 43rd annual technical meeting preprints, v. 1: CIM [Canadian Institute of Mining and Metallurgy] Petroleum Society,. Later published in 1994: Journal of Canadian Petroleum Technology, v. 33, no. 10, p. 28-34.

Hill, J.A., Soo, D.K.Y., and Verriah, T., 1992, Geological Society of Malaysia Bulletin, v. 32, p. 15-43.:

Holbrook, P.W., 1995, The relationship between porosity, mineralogy and effective stress in granular sedimentary rocks, paper AA, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Holstein, E.D., and Warner, H.R., Jr., 1994, Overview of water saturation determination for the Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28573, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 67-76.

Holt, R.M., 1994, Effects of coring on petrophysical measurements, paper SCA-9407, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 77-86.

Honarpour, M.M., Cullick, A.S., Saad, N., and Humphreys, N.V., 1995, Effect of rock heterogeneity on relative permeability--implications for scale-up, SPE-29311, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 505-519.

Hoppie, B.W., Blum, and Shipboard Scientific Party, 1994, Natural gamma-ray measurements on ODP cores--introduction to procedures with examples from Leg 150, chapter 5, in Mountain, G.S., Miller, K.G., Blum P., et al., eds., Proceedings of the Ocean Drilling Program, initial reports, v. 150: Ocean Drilling Program, Texas A&M University, College Station, p. 51-59.

Hornby, B.E., Johnson, C.D., Cook, J.M., and Coyner, K.B., 1994, Ultrasonic laboratory measurements of the elastic properties of shales, SL3.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1117-1120.

Howard, J.J., and Spinler, E.A., 1993, Nuclear magnetic resonance measurements of wettability and fluid saturations in chalk, SPE-26471, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 565-573. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 65.

Hsu, W.F., 1994, Wettability of porous media by nuclear magnetic resonance relaxation methods: Texas A&M University, College Station, Texas, unpublished Ph.D. thesis, 159 p.

Huey, D.P., and Storms, M.A., 1995, Deepwater drilling tools, part 2--New downhole tools improve core recovery: Oil and Gas Journal, v. 93, no. 4, January 23, p. 42-47.

Hurst, A., and Goggin, D., 1995, Probe permeametry--an overview and bibliography: AAPG Bulletin, v. 79, no. 3, p. 463-473.

Hurst, A., and Nadeau, P., 1994, A little clay - volumes of problems, paper A, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 21 p.

Hurst, A., and Nadeau, P., 1994, Estimation of water saturation from clay microporosity data, SPE-28850, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 451-458.

Hurst, A., and Nadeau, P.H., 1995, Clay microporosity in reservoir sandstones--an

application of quantitative electron microscopy in petrophysical evaluation: AAPG Bulletin, v. 79, no. 4, p. 563-573.

Hutchinson, M.W., 1991, Comparisons of MWD, wireline, and core data from a borehole test facility, SPE-22735, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 741-754. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 38-51.

Jackson, M.A., Bowen, D.G., Jensen, J.L., and Todd, A.C., 1994, Resistivity and permeability mapping at the lamina scale, paper SCA-9415, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 163-172.

Jackson, P., Lovell, M., Harvey, P., Ball, J., Williams, C., Flint, R., Gunn, D., Ashu, P., and Meldrum, P., 1994, Electrical resistivity core imaging--a new technology for high resolution investigation of petrophysical properties, paper I, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 14 p.

Jackson, P., Lovell, M.A., and Harvey, P., 1993, Electrical resistivity imaging, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1363-1366.

Jakobsen, S.R., Ingsoy, P., Braun, T., Guo, Y., and Aga, M., 1994, Assessing the relative permeability of heterogeneous reservoir rock, SPE-28856, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 521-529.

Jeans, C.V., 1994, Clay diagenesis, overpressure and reservoir quality--an introduction: Clay Minerals, v. 29, p. 415-424.

Jennings, J.B., 1987, Capillary pressure techniques--application to exploration and development geology: AAPG Bulletin, v. 71, no. 10, p. 1196-1209. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 67-80.

Jensen, J.L., Corbett, P.W.M., and Glasbey, C.A., 1994, On the interaction of geology, measurement, and statistical analysis of small-scale permeability measurements: Terra Nova, v. 6, no. 4, p. 397-403.

Jerauld, G.R., and Rathmell, J.J., 1994, Wettability and relative permeability of Prudhoe Bay--a case study in mixed-wet reservoirs, SPE-28576, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 101-116.

Jia, D., Buckley, J.S., and Morrow, N.R., 1994, Alteration of wettability by drilling mud filtrates, paper SCA-9408, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 87-96.

Jin, M., and Sharma, M.M., 1994, Shaly sand formation evaluation using a single membrane potential measurement: Journal of Petroleum Science and Engineering, v. 11, p. 301-310.

Johansen, T.A., and Kenstrom, R., 1993, Evaluation of formation properties from acoustic data, in Lerkendal petroleum engineering workshop proceedings: Norwegian Institute of Technology, Trondheim, Norway, p. 83-97.

Johnston, J.E., and Christiansen, N.I., 1995, Seismic anisotropy of shales: Journal of

Geophysical Research, v. 100, no. B4, April 10, p. 5991-6003.

Katsube, T.J., and Williamson, M.A., 1994, Effects of diagenesis on shale nano-pore structure and implications for sealing capacity: *Clay Minerals*, v. 29, p. 451-461.

Katz, S.A., Chilingarian, G.V., and Islam, M.R., 1995, Estimation of reservoir porosity and saturations using multiple sources of geophysical data: *Journal of Petroleum Science and Engineering*, v. 13, p. 103-111.

Kenyon, W.E., Takezaki, H., Straley, C., Sen, P.N., Herron, M., Matteson, A., Petricola, M.J., 1995, A laboratory study of nuclear magnetic resonance relaxation and its relation to depositional texture and petrophysical properties--carbonate Thamama Group, Mubarratz field, Abu Dhabi, SPE-29886, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 477-502.:

Keys, W.S., Hoffman, G.L., and Pawlowicz, J.G., 1990, General methods of analyzing geophysical logs and core data, chapter 2, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 15 p.

Klein, J.D., Martin, P.R., and Allen, D.F., 1995, The petrophysics of electrically anisotropic reservoirs, paper HH, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Kleinberg, R.L., 1995, Petrophysics of the nuclear magnetic resonance tool, chapter 5, in Georgi, D.T., ed., *Nuclear magnetic resonance logging short course notes*, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Klimentos, T., 1995, Petrophysics and seismic wave technology--applications in exploration, formation evaluation, and reservoir characterization, SPE-29887, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 503-518.:

Knight, R., and Abad, A., 1995, Rock/water interaction in dielectric properties--experiments with hydrophobic sandstones: *Geophysics*, v. 60, no. 2, March-April, p. 431-436.

Knight, R., Tercier, P., and Goertz, D., 1995, A laboratory procedure for estimating irreducible water saturation from cuttings, paper YY, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Knoll, M.D., Knight, R., and Brown, E., 1995, Can accurate estimates of permeability be obtained from measurements of the dielectric properties?, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 25-35.

Kohhedee, J.A., 1994, Simultaneous determination of capillary pressure and relative permeability of a displaced phase, SPE-28827, in *European petroleum conference proceedings*: Society of Petroleum Engineers, p. 213- 222.

Kokkedee, J.A., and Boutkan, V.K., 1995, Towards measurement of capillary pressure and relative permeability at representative wettability, in de Haan, H.J., ed., *New developments in improved oil recovery*: Geological Society [London] Special Publication No. 84, p. 43-50.

Kopaska-Merkel, D.C., and Mann, S.D., 1994, Classification of lithified carbonates using ternary plots of pore facies--examples from the Jurassic Smackover Formation, chapter 20, in Carbonate microfabrics symposium proceedings: Texas A&M University, College Station, Texas, *Frontiers in Sedimentary Geology Series*, p. 265-277.

Lackie, M.A., and Schmidt, P.W., 1993, Drill core orientation using paleomagnetism: *Exploration Geophysics*, v. 24, p. 609-614.

Leshchyshyn, T., and Kennedy, W., 1994, Post core analysis to determine the steam flow path in the McMurray oil sands: *Journal of Canadian Petroleum Technology*, v. 33, no. 7, p. 53-64.

Liaw, H.-K., Kulkarni, R., Chen, S., and Watson, A.T., 1994, The use of magnetic resonance spectroscopy to probe microscopic structures and fluid distributions in porous media, paper SCA-9403, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 29-42.

Lind, I., Nykjaer, O., Priisholm, S., and Springer, N., 1992, Permeability of stylolite-bearing chalk, SPE-26019: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1994: *Journal of Petroleum Technology*, v. 46, no. 11, p. 986-993.

Link, C.A., 1993, Crosshole seismic analysis for reservoir characterization and lithology identification: University of Houston, Texas, unpublished Ph.D. dissertation, 231 p.

Liu, X., Vernik, L., and Nur, A., 1994, Effects of saturating fluids on seismic velocities in shale, SL3.2, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1121-1124.

Longeron, D., Hammervold, W.L., and Skjoeveland, S. M., 1994, Water-oil capillary pressure and wettability measurements using micropore membrane technique, paper SCA-9426, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 285-294.

Longeron, D., Kalaydjian, F., and Bardon, C., 1995, Gas-oil capillary pressure measurements at reservoir conditions--effect of interfacial tension and connate water saturation, in de Haan, H.J., ed., *New developments in improved oil recovery: Geological Society [London] Special Publication No. 84*, p. 73-80.

Lopez-Diaz, F., and Bastida, F., 1994, Structural data from drill core: *Geological Magazine*, v. 131, no. 5, p. 619-623.

Lovell, M., Harvey, P., Jackson, P., Flint R., and Gunn, D., 1994, Characterisation of thinly-bedded reservoirs--a role for electrical resistivity core imaging?, paper H, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 7 p.

Lowden, B., 1994, Image analysis--obtaining 3-D data from 2-D: *Dialog [London Petrophysical Society Quarterly Newsletter]*, v. 2, no. 4, October, p. 6-7, 16.

Lu, X., Miao, P., Watson, A.T., Pepin, G.P., Moss, R.M., and Semmelbeck, M., 1994, X-ray computed tomography studies of gas storage and transport in Devonian shales: *AIChE Journal*, v. 40, no. 7, p. 1246-1253.

Luo, P., Machel, H.G., and Shaw, J., 1994, Petrophysical properties of matrix blocks of a heterogeneous dolostone reservoir--the Upper Devonian Grosmont Formation, Alberta, Canada: *Bulletin of Canadian Petroleum Geology*, v. 42, no. 4, p. 465-481.

Maddinelli, G., Camanzi, A., Carati, C., and Brancolini, A., 1994, Heterogeneous

systems--an integrated approach based on different imaging techniques, paper SCA-9406, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 67-76.

Maloney, D., Doggett, K., and Gilliland, R., 1994, New procedure and apparatus for combined reservoir condition gas-brine relative permeability, capillary pressure, and electrical property measurements, paper SCA-9427, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 295-304.

Mann, U., 1994, An integrated approach to the study of primary petroleum migration, in Parnell, J., ed., Geofluids, origin, migration, and evolution of fluids in sedimentary basins: Geological Society [London] Special Publication No. 78, p. 233-260.

Mao, Z.Q., Zhang, C.G., Lin, C.Z., Ouyang, J., Wang, Q. and Yan, C.J., 1995, The effects of pore structure on electrical properties of core samples from various sandstone reservoirs in Tarim Basin, paper LL, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Mardon, D., 1995, Basic physics of the nuclear magnetic resonance (NMR) logging tools, chapter 2, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Marsala, A.F., Ragazzini, G., Meazza, O., Brignoli, M., and Santarelli, F.J., 1994, Basin scale rock mechanics--logs and core measurements, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 105-112.

Marzouk, I., Takezaki, H., and Miwa, M., 1995, Geologic controls on wettability of carbonate reservoirs, Abu Dhabi, U.A.E., SPE-29883, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 449-460.:

Mathews, A.R., 1991, Estimating sandstone permeability using network models with pore size distributions: Texas A&M University, College Station, Texas, unpublished M.S. thesis, 118 p.

Mathis, B., Haller, D., Ganem, H., and Standon, E., 1995, Orientation and calibration of core and borehole image data, paper JJJ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Maver, K.G., 1995, Porosity evaluation of seismically-resolved Zechstein carbonate layers, Logumkloster-1 well, Denmark: Journal of Petroleum Geology, v. 18, no. 3, p. 329-344.

McAfee, A., 1994, Digital core description data--the missing link in effective reservoir characterisation, paper D, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 11 p.

McCann, C., 1994, Estimating the permeability of reservoir rocks from P-wave velocity and quality factor [abs.], P172, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

McCoy, D.D., and Grieves, W.A., 1994, Use of resistivity logs to calculate water saturation in the Prudhoe Bay field, SPE-28578, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 131-143.

McGuire, P.L., Spence, A.P., Stalkup, F.I., and Cooley, M.W., 1994, Core acquisition and analysis for optimization of the Prudhoe Bay miscible gas project, SPE/DOE-27759, in SPE/DOE 9th symposium on improved oil recovery, proceedings, v. 1: Society of Petroleum Engineers, p. 253-265. Later published in 1995: SPE Reservoir Engineering, v. 10, no. 2, p. 94-100.

McPhee, C., and Arthur, K., 1994, Relative permeability measurements: an inter-laboratory comparison, paper F, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 13 p. Also published in 1994 as SPE-28826, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 199-211.

Melrose, J.C., 1993, Evaluation of the high-speed centrifuge technique for determining capillary pressure at low wetting-phase saturations: SPE Advanced Technology Series, v. 1, no. 1, p. 108-116.

Merrill, M.R., 1993, Local velocity and porosity measurements inside Casper Sandstone using MRI, paper 63E: American Institute of Chemical Engineers, presented at Spring national meeting, 15 p.

Mijnssen, F.C.J., Weber, K.J., Rozendal, S., and Kool, H., 1992, The effect of horizontal shales on vertical permeability in clastic reservoir rocks, in Spencer, A.M., ed., Generation, accumulation and production of Europe's hydrocarbons II: Springer-Verlag,, Berlin, European Association of Petroleum Geologists Special Publication No. 2, p. 279-289.

Miller, M.A., Holder, J., Yang, H., Jamal, Y., Gray, K.E., Fisher, R.S., and Tyler, N., 1993, Petrophysical and petrographic properties of the Ferron Sandstone, topical report: Gas Research Institute Report GRI-93/0219, variously paginated.

Mirza, N.A., 1992, Geophysical modelling of sediment permeability: Wales, University, unpublished Ph.D. thesis, 202 p.

Mitchell, P., and Brown, G., 1994, The effect of imbibition on the value of the saturation exponent and the implications for depleting reservoirs, paper C, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 14 p.

Moline, G.R., and Bahr, J.M., 1995, Estimating spatial distributions of heterogeneous subsurface characteristics by regionalized classification of electrofacies: Mathematical Geology, v. 27, no. 1, p. 3-22.

Montemagno, C.D., and Gray, W.G., 1995, Photoluminescent volumetric imaging--a technique for the exploration of multiphase flow and transport in porous media: Geophysical Research Letters, v. 22, no. 4, p. 425-428.

Morriss, C., 1995, CMR and basic log responses, chapter 7, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Munkvold, F.R., 1993, Relative permeability and capillary pressure from centrifuge experiments: Trondheim University, Norway, unpublished Ph.D. thesis, 286 p.

Murayama, R., 1994, From amplitude anomalies to physical properties--a quantitative approach: Oil and Gas Journal, v. 92, no. 43, October 24, p. 53-60.

Murray, C., Ehrlich, R., Mason, E., and Clark, R., 1994, Evaluation of the diagenetic and

structural influences on hydrocarbon entrapment in the Cardium Formation, Deep Basin, western Alberta: *Bulletin of Canadian Petroleum Geology*, v. 42, no. 4, p. 529-544.

Mwenifumbo, C.J., and Pawlowicz, J.G., 1990, Use of spectral gamma for clay mineralogy, chapter 6, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 38 p.

Nakagawa, F.M., Rinehart, S.F., 1994, Investigation of discrepancies in laboratory measurements of liquid permeability, paper SCA-9409, in *SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large*, p. 97-108.

Naylor, P., and Puckett, D.A., 1994, In-situ saturation distributions--a key to understanding core analysis, paper SCA-9405, in *SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large*, p. 57-66.

Nentwich, F.W., and Yole, R.W., 1994, Wireline log response, petrography and reservoir properties of cored intervals--Kugmallit sequence (Oligocene), Beaufort-Mackenzie Basin, Arctic Canada: *Bulletin of Canadian Petroleum Geology*, v. 42, no. 4, p. 432-448.

Neretin, V.D., and Chukhovich, V.D., 1995, Interpretation of nuclear magnetic resonance data: *Society of Professional Well Log Analysts*, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 21 p.

Neuman, C.H., 1978, Log core measurements of oil in place, San Joaquin Valley, SPE-7146: *Society of Petroleum Engineers*. Later published in 1980: *Journal of Petroleum Technology*, v. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 152-158.

Nikakhtar, B., Kantzas, A., Wong, F., and Pow, M., 1994, Some observations on the capillary pressure hysteresis using the ultracentrifuge, paper SCA-9423, in *SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large*, p. 249-262.

Nolen-Hoeksema, R.C., Wang, Z., Harris, J.M., Langan, R.T., 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, part 5--core analysis: *Geophysics*, v. 60, no. 3, p. 712-726.

Nordtvedt, J.E., Urkedal, H., Watson, A.T., Ebeltoft, E., Kolltveit, K. and Oxnevad, I.E.I., 1994, Estimation of relative permeability and capillary pressure functions using transient and equilibrium data from steady-state experiments, paper SCA-9418, in *SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large*, p. 197-206.

Ostermeier, R.M., 1993, Some core analysis issues related to deep water Gulf of Mexico turbidites, paper SCA-9315, in *Annual technical conference proceedings: Society of Professional Well Log Analysts, Society of Core Analysts Chapter-at-Large*, 14 p. Also published in 1993 as, *Deepwater Gulf of Mexico turbidites--compaction effects on porosity and permeability*, SPE-26468, in *SPE annual technical conference and exhibition proceedings*, v. omega, Formation evaluation and reservoir geology:

Society of Petroleum Engineers, p. 539-551. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 79-85.

Pande, P.K., Clark, M.B., Blasingame, T.A., and Doublet, L., 1994, Data acquisition design and implementations--in mature reservoirs, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 65-78.

Peddy, C.P., Sengupta, M.K., and Fasnacht, T.L., 1995, AVO analysis in high-impedance sandstone reservoirs: The Leading Edge, v. 14, no. 8, p. 871-877-

Petersilie, V.I., and Yatsenko, G.G., 1995, Assessment of parameters of oil and gas pools from well logs and core data: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 27 p.

Petricola, M.J.C., and Watfa, M., 1995, Effect of microporosity in carbonates--introduction of a versatile saturation equation, SPE-29841, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 607-615.:

Pham, A.T., Martyntsev, O.F., and Tran, L.D., 1994, Evaluation of fracture aperture and wettability, capillary properties of oil-bearing fractured granite, paper SCA-9410, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 109-119.

Potter, G., and Lyle, G., 1994, Measuring unsteady-state gas displacing liquid relative permeability of high permeability samples, paper SCA-9419, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 207-216.

Powell, B.N., and Lovell, G.L., 1994, Mechanisms of chalk compaction, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 811-818

Prammer, M., 1995, Principles of signal processing--NMR data and T2 distributions, chapter 4, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Prins, M., Smits, R.M.M., and Schutjens, P.M.T.M., 1995, Predicting compaction and subsidence for an immature gasbearing carbonate field, SPE-29273, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 195-202.

Prosser, D.J., and Maskall, R., 1993, Permeability variation within aeolian sandstone--a case study using core cut sub-parallel to slipface bedding, the Auk field, central North Sea, UK, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 377-397.

Rathmell, J.J., and Warner, H.R., Jr., 1994, Mechanisms controlling filtration at the core bit for oil-base muds, SPE-28596, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 335-346.

Rathmell, J.J., Warner, H.R., Jr., Tibbits, G.A., Gremley, R.B., and White, E.K., 1990, Development of a method for partially uninvaded coring in high-permeability sandstone,

SPE-20413, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling, p. 89-100. Later published in 1995 as, Rathmell, J.J., Tibbits, G.A., Gremley, R.B., Warner, H.R., Jr., and White, E.K.: SPE Formation Evaluation, v. 10, no. 2, p. 65-71.:

Rauen, A., and Lastovickova, M., 1995, Investigation of electrical anisotropy in the deep borehole KTB: Surveys in Geophysics, v. 16, p. 37-46

Rauen, A., and Soffel, H.C., 1995, Determination of electrical resistivity, its anisotropy and heterogeneity on drill cores--a new method: Geophysical Prospecting, v. 43, p. 283-298.

Reed, R.L., Humphrey, R.A., Holstein, E.D., and Rathmell, J.J., 1994, IFT and flushing studies to validate as-received oil-base-core water saturations from the Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28594, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 319-326.

Richardson, J.G., and Holstein, E.D., 1994, Comparison of water saturations from capillary pressure measurements with oil-base-mud core data Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28593, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 311-318.

Richardson, J.G., Holstein, E.D., Rathmell, J.J., and Warner, H.R., Jr., 1994, Investigation of as-received oil-bas-core water saturations from the Ivishak reservoir, Prudhoe Bay field, SPE-28592, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 303-318.

Robertson, E.P., Bala, G.A., and Thomas, C.P., 1994, Laboratory methods for enhanced oil recovery core floods: U.S. Department of Energy Report DOE/ID/01570-T171, 17 p.

Robin, M., and Rosenberg, E., and Fassi-Fihri, O., 1991, Wettability studies at the pore level--a new approach by use of cryo-SEM, SPE-22596, in SPE annual technical conference and exhibition proceedings, v.: Society of Petroleum Engineers, p. Later published in 1995: SPE Formation Evaluation, v. 10, no. 1, p. 11-19.

Roestenburg, J.W., 1994, Carbonate characterization and classification from in-situ wellbore images, paper IPA94-1-1-115, in 23rd annual convention proceedings, v. 1: Indonesia Petroleum Association, Jakarta, p. 181-188.

Ruffet, C., Darot, M., and Gueguen, Y., 1995, Surface conductivity in rocks--a review: Surveys in Geophysics, v. 16, p. 83-105.

Sabatier, L., 1994, Comparative study of drainage capillary pressure measurements using different techniques for different fluid systems, paper SCA-9424, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 263-274.

Saha, S., Al-Kaabi, A., Amabeoku, M.O., and Al-Fossail, K., 1995, Core-log integration for a Saudi Arabian sandstone reservoir, SPE-29867, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 293-309.

Saha, S., Drager, L., and Asquith, G.B., 1994, Simulating the Archie parameters--

computer program and example from the Permian strata of west Texas: *Computers and Geosciences*, v. 20, no. 1, p. 41-45.

Sakurai, S. and Loucks, R.G., and Gardner, J.S., 1995, NMR core analysis of Lower San Andres/Glorieta/Upper Clear Fork (Permian) carbonates--central basin platform, west Texas, paper M, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Salem, H.S., 1992, A theoretical and practical study of petrophysical, electrical, and elastic parameters of sediments: Christian Albrechts University, unpublished Ph.D. thesis, 221 p.

Salem, H.S., 1994, The electric and hydraulic anisotropic behavior of the Jeanne d'Arc basin reservoirs: *Journal of Petroleum Science and Engineering*, v. 12, p. 49-66.

Sandor, R., Bonnie, R., Tutunjian, P., and Ferris, J., 1994, Frequency dependence of NMR measurements on rock samples, paper L, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 8 p.

Saner, S., Cagatay, M.N., and Al Fossail, K., 1994, Shaliness effect on the log-derived Archie cementation factor--study of a Saudi Arabian sandstone reservoir: *The Log Analyst*, v. 35, no. 6, p. 16-27.

Santarelli, F.J., 1994, Rock mechanics characterization of deep formations--a technico-economical overview, in *Rock mechanics in petroleum engineering, Eurock '94* proceedings: A.A. Balkema, Rotterdam, p. 3-12.

Santarelli, F.J., and Carminati, S., 1995, Do shales swell?--A critical review of available evidence, SPE/IADC-29421, in *SPE/IADC drilling conference proceedings: Society of Petroleum Engineers*, p. 741-756.

Saunders, M.R., Shields, J.A., and Taylor, M.R., 1994, Digitizing rocks?--standardizing the process of geological description using workstations, SPE-27542, in *European petroleum computer conference proceedings: Society of Petroleum Engineers*, p. 23-38. Later published in 1995, in brief format as, SPE-30972: *Journal of Petroleum Technology*, v. 47, no. 6, p. 510-511.

Schenewerk, P., Goddard, D., and Echols, J., 1994, Reservoir characterization and preliminary modeling of deltaic facies, Lower Wilcox, Concordia Parish, Louisiana: *Gulf Coast Association of Geological Societies Transactions*, v. 44, p. 664-674.

Schlueter, E.M., 1993, Predicting the transport properties of sedimentary rocks from microgeometry: Lawrence Berkeley National Laboratory Report LBL-33830, 85 p.

Schlueter, E.M., Myer, L.R., Cook, N.G.W., and Witherspoon, P.A., 1992, Formation factor and the microscopic distribution of wetting phase in pore space of Berea Sandstone: Lawrence Berkeley National Laboratory Report LBL-33207, 22 p.

Schlueter, E.M., Zimmerman, R.W., Cook, N.G.W., and Witherspoon, P.A., 1994, Perimeter-area power-law relationship of pores in sedimentary rocks and implications for permeability, DP4.1, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 315-318.

Siegesmund, S., Vollbrecht, A., Chlupac, T., Nover, G., Durrast, H., Muller, J., and Weber, K., 1993, Fabric-controlled anisotropy of petrophysical properties observed in KTB core samples: *Scientific Drilling*, v. 4, p. 31-54.

Skauge, A., and Larsen, J. A., 1994, Three-phase relative permeabilities and trapped gas measurements related to WAG processes, paper SCA-9421, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 227-236.

Skelt, C., 1995, An integrated approach to saturation height analysis, paper NNN, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Skopec, R.A., and Ross, C.P., 1994, Amplitude-versus-offset interpretation, scaling factors, and other challenges associated with acoustic data integration, paper SCA-9417, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 183-196.

Skopec, R.A., Collee, P.E., van Puymbroeck, L., and Shallenberger, L.K., 1995, Downhole core preservation for improved formation evaluation, paper ZZ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Sneider, R.M., King, H.R., Stolper, K.K., Kulha, J.T., 1995, Impact of Archie "m" on evaluating conventional and low resistivity pay [abs.], in 1995 AAPG annual convention official program, v. 4, Houston: AAPG, p. 90A. Text and figures of poster are available from BK Geo Services, 11991 Cochise Circle, Conifer, CO 80433.

Starkey, J., and Samantaray, A.K., 1994, A microcomputer-based system for quantitative petrographic analysis: Computers and Geosciences, v. 20, no. 9, p. 1285-1296.

Stiles, J.H., Jr., and Hutfilz, J.M., 1988, The use of routine and special core analysis in characterizing Brent group reservoirs, U.K. North Sea, SPE-18386, in SPE European petroleum conference [London] proceedings: Society of Petroleum Engineers, p. 475-491. Later published in 1992: Journal of Petroleum Technology, v. 44, no. 6, p. 704-713. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 180-189.

Straley, C., Morriss, C.E., Kenyon, W.E., and Howard, J.J., 1991, NMR in partially saturated rocks: laboratory insights on free fluid index and comparison with borehole logs, paper CC, in 32nd annual logging symposium transactions: Society of Professional Well Log Analysts, 25 p. Later published in 1994: The Log Analyst, v. 36, no. 1, p. 40-56.

Straley, C., Rossini, D., Schwartz, L.M., Stromski, M.E., Hrovat, M., and Patz, S., 1992, Particle filtration in sandstone cores--application of a chemical shift imaging technique, SCA-9217, in 6th annual technical conference preprints [33rd SPWLA annual logging symposium transactions, v. 3]: Society of Core Analysts, Society of Professional Well Log Analysts Chapter-at-Large, 24 p. Later published in 1995: The Log Analyst, v. 36, no. 2, p. 42-51.

Straley, C., Rossini, D., Vinegar, H., Tutunjian, P., and Morriss, C., 1994, Core analysis by low field NMR, paper SCA-9404, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 43-56.

Strathouse, E.C., 1995, Whole core of middle Pleistocene pay zones in Garden Banks

block 171, Gulf of Mexico, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 131-147.

Swanson, B.F., 1979, A simple correlation between permeabilities and mercury capillary pressures, SPE-8234: Society of Petroleum Engineers, presented at 54th annual technical conference and exhibition, preprint. Later published in 1981: Journal of Petroleum Technology, v. 33, no. 12, p. 2498-2504. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 138-144.

Swanson, B.F., 1985, Microporosity in reservoir rocks--Its measurement and influence on electrical resistivity, paper F, in 26th annual logging symposium transactions: Society of Professional Well Log Analysts, 17 p. Later published in 1985: The Log Analyst, v.26, no. 6, November-December, p. 42-52. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 94-104.

Tao, G., King, M.S., and Nabi-Bidhendi, M., 1995, Ultrasonic wave propagation in dry and brine-saturated sandstones as a function of effective stress--laboratory measurements and modelling: Geophysical Prospecting, v. 43, p. 299-327.

Thiercelin, M.J., and Plumb, R.A., 1991, Core-based prediction of lithologic stress contrasts in east Texas formations, SPE-21847, in SPE Rocky Mountain regional meeting/low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 251-258.

Thompson, A.H., Katz, A.J., and Raschke, R.A., 1987, Estimation of absolute permeability from capillary pressure measurements, SPE-16794, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. ? Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 145-151.

Ti, G., Ogbe, D.O., Munly, W., and Hatzignatiou, D.G., 1993, The use of flow units as a tool for reservoir description--a case study, SPE-26919, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 293-306. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 122-128.

Tompkins, B.C., 1990, An integrated core-well log study and stratigraphic correlation of the Lower Cretaceous Mannville Group, Lloydminster sub-basin, west-cent Saskatchewan and east-central Alberta: Calgary University, Calgary, Alberta, unpublished M.S. thesis, 372 p.

Truman, R.B., Howard, W.A., Davies, D.K., and Vessell, R.K., 1986, Utilization of rock characterization data to improve well log interpretation, paper V, in 27th annual logging symposium transactions: Society of Professional Well Log Analysts, 19 p. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 159-179.

Tuan, P.A., Martyntsis, O.F., and Dong, T.L., 1994, Evaluation of fracture aperture and wettability, capillary properties of oil-bearing fractured granite, paper SCA-9410, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 109-120.

Udegbumam, E.O., and Numbere, D.T., 1994, Model for locating fluids' contracts [sic] in petroleum reservoirs, SPE-29193, in Eastern regional conference and exhibition

proceedings: Society of Petroleum Engineers, p. 321-327.

van Berlo, A., Darling, T., and Keller, J., 1994, Hydrocarbon saturation determination from cores in a north sea high pressure/temperature gas condensate well, paper E, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 3 p.

Verm, R., and Hilterman, F., 1995, Lithology color-coded seismic sections--the calibration of AVO crossplotting to rock properties: *The Leading Edge*, v. 14, no. 6, p. 847-853.

Vernik, L., Hickman, S., Lockner, D., and Rusanow, M., 1994, Ultrasonic velocities in cores from the Kola superdeep well and the nature of subhorizontal seismic reflections: *Journal of Geophysical Research*, v. 99, no. B12, December 10, p. 24,209-24,219.

Vinegar, H.J., 1986, X-ray CT and NMR imaging of rocks, SPE-15277: *Journal of Petroleum Technology*, v. 38, no. 3, p. 257-259. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 115-117.

Vinegar, H., 1995, NMR log interpretation with examples, chapter 8, in Georgi, D.T., ed., *Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts*, variously paginated.

Vinegar, H., 1995, Relaxation mechanisms, chapter 3, in Georgi, D.T., ed., *Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts*, variously paginated.

Virnovsky, G.A., Guo, Y., Vatne, K O., and Braun, E.M., 1994, Pseudo steady state technique for relative permeability measurements, paper SCA-9420, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 217-226.

Vo-Thanh, D., 1995, Influence of fluid chemistry on shear-wave attenuation and velocity in sedimentary rocks: *Geophysical Journal International*, v. 121, no. 3, p. 737-749.

Wade, N.H., 1990, Geotechnical parameters, chapter 3, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110*, 39 p.

Walls, J.D., and Dvorkin, J., 1991, Measured and calculated horizontal stresses in the Travis Peak Formation, SPE-21843, in SPE Rocky Mountain regional meeting/low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. Later published in 1994: *SPE Formation Evaluation*, v. 9, no. 4, p. 259-263.

Warlaw, N.C., 1983, Rock texture, pore structure wettability--neglected parameters in well log interpretations of fluid saturations?: *Canadian Well Logging Society Journal*, v. 12, p. 89-98. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 105-114.

Wei, J.Z., 1993, Influence of wettability and saturation history on resistivity measurements in porous media: Trondheim University, Norway, unpublished Ph.D. thesis, 180 p.

Wong, P.M., Jian, F.X., and Taggart, I.J., 1995, A critical comparison of neural networks and discriminant analysis in lithofacies, porosity, and permeability predictions: *Journal of Petroleum Geology*, v. 18 no. 2, p. 191-206.

Worthington, P., 1994, Verification of water-saturation algorithms through dual-salinity

desaturations, paper B, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 29 p.

Worthington, P., 1995, Estimation of intergranular permeability from well logs: Dialog [quarterly newsletter of the London Petrophysical Society], v. 3, no. 3, p. 7-10.

Yang, Y.S., Thompson, C.J., and McCarthy, J.F., 1994, The generation of grid block permeabilities from core data, SPE-28753, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 127-134.

Yilmaz, O., Nolen-Hoeksema, R.C., and Nur, A., 1994, Pore pressure profiles in fractured and compliant rocks: Geophysical Prospecting, v. 42, p. 693-714.

Yuan, H.H., and Swanson, B.F., 1986, Resolving pore-space characteristics by rate-controlled porosimetry, SPE-14892, in SPE enhanced oil recovery symposium proceedings, v. 1: Society of Petroleum Engineers, p. 167-180. Later published in 1989: SPE Formation Evaluation, v. 4, no. 1, p. 17-24. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 44-51.

Zech, R.S., and Keighin, C.W., 1993, Porosity and permeability data for the Point Lookout Sandstone from core holes 1HCMS and 2HCMS, northern San Juan Basin, La Plata County, Colorado: U.S. Geological Survey Open-File Report OF 93-0306, 180 p.

Zizi, K., 1994, Dry rock model prediction to be used in Biot-Gassmann-Domenico equations for computing acoustic properties of a carbonate rock, PP7.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 814-817.

Return to Main Menu

IV. Electromagnetic Loggings (Includes Resistivity, NMR, and Magnetic) (See also II. General Log Interpretation)

Akkurt R., and Guillory, A.J., Vinegar, H.J. and Tutunjian, P.N., 1995, NMR logging of natural gas reservoirs, paper N, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Anderson, B., Barber, T.D., and Luling, M.G., 1995, The response of induction tools to dipping, anisotropic formations, paper D, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Anderson, B., Bryant, I., Luling, M., Spies, B., Helbig, K., 1994, Oilfield anisotropy--its origins and electrical characteristics: Schlumberger Oilfield Review, v. 6, no. 4, p. 48-56.

Auchincloss, P.V., 1991, High-resolution magnetic susceptibility logger for mineral exploration boreholes; design of a prototype: Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 92 p.

Ball, S., Yee, S., Maranuk, C., and Bittar, M., 1995, Case histories and applications of a new slimhole MWD multiple-depth-of-investigation resistivity sensor, SPE/IADC-29435, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 891-902.

Barber, T., Anderson, B., and Mowat, G., 1992, Using induction tools to identify magnetic formations and to determine relative magnetic susceptibility and dielectric constant, paper C, in 33rd annual logging symposium transactions: Society of Professional Well Log Analysts, 22 p. Later published in 1995: The Log Analyst, v. 36,

no. 4, p. 16-26.

Basan, P., Howard, J., Lahann, R., Prichard, T., Attard, J., and Camden, D., 1994, Variations in NMR relaxivity and its relationship to pore size in sandstones from the South Morecambe Field, Irish Sea, paper AA, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 39 p.

Bergt, D., 1995, Resistivity measurements at the bit provide real-time formation evaluation before invasion: *Journal of Petroleum Technology*, v., 47, no. 6, p. 492.

Bowers, M.C., Ehrlich, R., Howard, J.J., and Kenyon, W.E., 1995, Determination of porosity types from NMR data and their relationship to porosity types derived from thin section: *Journal of Petroleum Science and Engineering*, v. 13, p. 1-14.

Camden, D., 1994, NMR theory made simple: *Dialog [London Petrophysical Society Quarterly Newsletter]*, v. 2, no. 4, October, p. 4-5.

Campbell, B.S., 1994, Induced-polarization anomalies associated with hydrocarbon reservoirs--three case studies: *Bulletin of the Association of Petroleum Geochemical Explorationists*, v. 10, no. 1, p. 49-60.

Chandler, R., 1995, NML hardware history and MRIL, chapter 6, in Georgi, D.T., ed., *Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France*: Society of Professional Well Log Analysts, variously paginated.

Chardac, J-L., and El-Sayed, H., 1995, Applications of a new multi-resistivity and imaging tool in the Middle East, SPE-29838, in *SPE Middle East oil show proceedings, v. 1*: Society of Petroleum Engineers, p. 589-596.

Chemali, R., Heysse, D., Merchant, G.A. and Jackson, C., 1995, Comparisons of wireline and LWD resistivity highlight resistivity frequency dispersion in sedimentary formations, paper F, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Coates, G.R., Miller, D.L., Mardon, D., and Gardner, J.S., 1995, Applying log measurements of restricted diffusion and T2 to formation evaluation, paper P, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Coope, D.F., 1994, Petrophysical applications of NMR in the North Sea, paper Z, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 12 p. Abridged version published also published in 1994 as, *Petrophysical applications of NMR: Dialog [London Petrophysical Society Quarterly Newsletter]*, v. 2, no. 4, October, p. 8-10.

Curwen, D.W., and Molaro, C., 1995, Permeability from magnetic resonance imaging logs, paper GG, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Daev, D.S., Zinchenko, V.S., Talalov, A.D., Andrieux, P., Camerlynck, C., Rakotondraso, G., 1993, Dielectric permittivity logging applied to hydrology and civil engineering [in French]: *Geologues*, no. 100-101, p. 11-14.

de Kuijper, A., Sandor, R.K.J., Hofman, J.P., Koelman, J.M.V.A., Hofstra, P. and deWaal, J.A., 1995, Electrical conductivities in oil-bearing shaly sand accurately described with the SATORI saturation model, paper MM, in 36th annual logging

symposium transactions: Society of Professional Well Log Analysts, 12 p.

de Lima, O.A.L., and Dalcin, C.L.R., 1995, Application of a new shaly sand model for interpreting resistivity and dielectric log measurements: *The Log Analyst*, v. 36, no. 2, p. 29-41.

De Naurois, H., Last, N.C., Husband, F.J., and Palstra, M., 1995, Improving drilling performance in the Cusiana and Cupiagua fields based on measurement and interpretation of hole deterioration using time-lapsed 2 MHz electromagnetic caliper devices, paper WW, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Dodge, W.S., Shafer, J.L., and Guzman-Garcia, A.G., 1995, Core and log NMR measurements of an iron-rich glauconitic sandstone reservoir, paper O, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Faivre, O., and Catala, G., 1995, Dip estimation from azimuthal laterolog tools, paper CC, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Gable, R., Millon, R., and Tabbagh, A., 1992, Magnetic logging in the Sancerre-Couy borehole [in French], in Chantraine, J., ed, *Geologie profonde de la France; forage scientifique de Sancerre-Couy; synthese des etudes 1986-1992: Geologie de la France*, no. 3-4, p. 171-182.

Garcia, G., 1991, Inversion of a lateral log using neural networks: Colorado School of Mines, Golden, 96 p.

Garrouch, A., 1993, Dielectric properties of fluid-saturated rocks: University of Texas at Austin, unpublished Ph.D thesis, 212 p.

Georgi, D.T., editor, 1995, Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Georgi, D.T., Zhang, J.C. Huang, Y.Y., Chandler, R.N. and Prammer, M.G., 1995, Vertical resolution and signal-to-noise characteristics of nuclear magnetic resonance imaging logs, paper OOO, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Gladden, L.F., 1994, Nuclear magnetic resonance in chemical engineering--principles and applications: *Chemical Engineering Science*, v. 49, no. 20, p. 3339-3408.

Grattoni, C.A., and Dawe, R.A., 1994, Electrical resistivity anisotropy due to pore scale structure, paper SCA-9416, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 173-182.

Grattoni, C.A., and Dawe, R.A., 1995, Influence of fluid distribution upon electrical resistivity of partially saturated media, paper II, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Hagiwara, T., 1993, Induction log analysis of thinly laminated sand/shale formation, SPE-25361: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1995: *SPE Formation Evaluation*, v. 10, no. 2, p. 86-90.

Hagiwara, T., 1995, Anisotropic shale and induction log shoulder bed corrections for deviated boreholes, paper Z, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hardman, R., 1994, Induction and MWD resistivity tools in horizontal wells, paper 94-22, in 45th annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

Hearn, F., 1994, Formation evaluation MWD enters a new capability realm: *World Oil*, v. 215, no. 11, p. 75-81.

Horkowitz, J.P., Hartman, D.E., Clerke, E.A., Vinegar, H.J., and Coates, G.R., 1995, Residual oil saturation measurements in carbonates with pulsed NMR logs, paper Q, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Howard, A.Q., Jr., 1993, Inversion of multiple tool invasion model for resistivity log interpretation, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 898-903.

Howard, J.J., and Spinler, E.A., 1993, Nuclear magnetic resonance measurements of wettability and fluid saturations in chalk, SPE-26471, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 565-573. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 65.

Kennedy, W.D., 1995, Induction log forward modeling--a rigorous and systematic approach to model construction, paper G, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Jackson, M.A., Bowen, D.G., Jensen, J.L., and Todd, A.C., 1994, Resistivity and permeability mapping at the lamina scale, paper SCA-9415, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 163-172.

Kenyon, W.E., Takezaki, H., Straley, C., Sen, P.N., Herron, M., Matteson, A., Petricola, M.J., 1995, A laboratory study of nuclear magnetic resonance relaxation and its relation to depositional texture and petrophysical properties--carbonate Thamama Group, Mubarratz field, Abu Dhabi, SPE-29886, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 477-502.

Kimura, M., Kanazaki, Y., and Saito, H., 1994, Development of a borehole radar system and its field experiments for the base of crosshole tomography, EM3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 414-417.

Klein, J.D., Martin, P.R., and Allen, D.F., 1995, The petrophysics of electrically anisotropic reservoirs, paper HH, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Kleinberg, R.L., 1995, Petrophysics of the nuclear magnetic resonance tool, chapter 5, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Knight, R., and Abad, A., 1995, Rock/water interaction in dielectric properties--experiments with hydrophobic sandstones: *Geophysics*, v. 60, no. 2, March-April, p. 431-436.

Korolev, V.A., and Mechetin, V.F., 1995, Electromagnetic logging by a lateral magnetic

dipole; perspectives of electromagnetic well scanning: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 6 p.

Kubica, 12 p., 1995, Statistical tests of permeability estimates based on NMR measurements, paper VVV, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

LaTorraca, G.A. Dunn, K.J., and Bergman, D.J., 1995, Magnetic susceptibility contrast effects on NMR T2 logging, paper JJ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 8 p.

Lee, T.-C., and Damiata, B.N., 1995, Distortion in resistivity logging at shallow depth: Geophysics, v. 60, no. 4, p. 1058-1069.

Lile, O.B., 1994, Modelling SP anomalies, paper N, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 13 p.

Lomax, J., and Howard, A., 1994, New logging tool identifies permeability in shaley sands: Oil and Gas Journal, v. 92, no. 51, December 19, p. 104-108.

Looyestijn, W., Schiet, M., and Runia, J., 1994, Successful field test of nuclear magnetic resonance (NMR) logging in the Rotterdam field, paper X, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 11 p.

Lovell, J.R., Rosthal, R.A., Arceneaux, C.L., Jr., Young, R.A., and Buffington, L., 1995, Structural interpretation of resistivity-at-the-bit images, paper TT, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Mardon, D., 1995, Basic physics of the nuclear magnetic resonance (NMR) logging tools, chapter 2, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Mardon, D., Prammer, M.G., Taicher, Z., Chandler, R.N. and Coates, G.R., 1995, Improved environmental corrections for MRIL pulsed NMR logs run in high-salinity boreholes, paper DD, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Meyer, W.H., 1995, New two frequency propagation resistivity tools, paper XX, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Meyer, W.H., Wu, J-Q., Macune, D.T., and Harvey, P.R., 1994, Near-bit propagation resistivity for reservoir navigation, SPE-28318, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 263-275. Also published as Geosteering with near-bit formation evaluation sensors, SPE-28905: Society of Petroleum Engineers. An extended abstract published in 1995 as, SPE-30142: Journal of Petroleum Technology, v. 47, no.2, p. 117-118.

Mezzatesta, A.G., Eckard, M.H., and Strack, K.-M., 1995, Integrated 2-D interpretation of resistivity logging measurements by inversion methods, paper E, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 8 p.

Mezzatesta, A.G., Eckard, M.H., Payton, C.C., and Strack, K.-M., 1995, Integrated

interpretation of galvanic and induction measurements by inversion, SPE-29839, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 597-605.:

Morriss, C., 1995, CMR and basic log responses, chapter 7, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Negrao, D.S. de O., and Luthi, S., 1993, Determining the hydrocarbon saturations in reservoir rocks with fresh formation water, Pilar field, Alagoas--Sergipe basin, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 1, p. 336-339.

Neretin, V.D., and Chukhovich, V.D., 1995, Interpretation of nuclear magnetic resonance data: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 21 p.

Neuman, C.H., 1978, Log core measurements of oil in place, San Joaquin Valley, SPE-7146: Society of Petroleum Engineers. Later published in 1980: Journal of Petroleum Technology, v. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 152-158.

Nogi, Y., Tarduno, J.A., and Sager, W.W., 1995, Geomagnetic-field variations recorded within drill pipe at Site 865--implications for paleomagnetic studies, chapter 24, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 389-393

Nogi, Y., Tarduno, J.A., and Sager, W.W., 1995, Magnetization of seamount-derived sediments from Site 869 inferred from downhole magnetometer logs, chapter 22, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 373-388.

Peters, L., Daniels, J.J., and Young, J.D., 1994, Ground penetrating radar as a subsurface environmental sensing tool: Proceedings of the IEEE, v. 82, no. 12, p. 1802-1822.

Pinzon, I.D., and Asquith, G.B., 1994, The application of dielectric logs to the recognition of oil versus water-wet reservoirs and in the determination of relative permeabilities, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 93-100.

Pocachard, J., Thomas, T., Barthes, V., Pozzi, J.-P., and Pages, G., 1993, In-situ magnetostratigraphic measurements in oil wells [in French]: Geologues, no. 100-101, p. 79-83.

Prammer, M., 1995, Principles of signal processing--NMR data and T2 distributions, chapter 4, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Rauen, A., and Lastovickova, M., 1995, Investigation of electrical anisotropy in the deep borehole KTB: Surveys in Geophysics, v. 16, p. 37-46

Rea, K.A., 1992, A prototype high resolution borehole magnetic susceptibility tool:

Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 57 p.

Rodney, P.F., Mack, S.G., Bittar, M.S., Bartel, R.P., 1991, An MWD multiple depth of investigation electromagnetic wave resistivity sensor, paper D, in 32nd annual logging symposium transactions: Society of Professional Well Log Analysts, 25 p. A similar paper also published in 1991 as, Bittar, M.S., Rodney, P.F., Mack, S.G., and Bartel, R.P., A true multiple depth of investigation electromagnetic wave resistivity sensor--theory, experiment, and prototype field test results, SPE-22705: Society of Petroleum Engineers, presented at 66th Annual Technical Conference and Exhibition [not included in proceedings], 18 p. A condensed version later published in 1992 as, Mack, S.G., Rodney, P.F., and Bittar, M.S., MWD tool accurately measures four resistivities: Oil and Gas Journal, v. 90, no. 21, May 25, p. 42-46. Later published in 1993: SPE Formation Evaluation, v. 8, no. 3, p. 171-176. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 155-160.

Roperch, P., Barthes, V., Pocachard, J., Collot, J.-Y., and Chabernaud, T., 1994, Magnetic logging and in-situ magnetostratigraphy--a field test, chapter 33, in Greene, H.G., Collot, J.-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 577-589.

Roy, K.K., and Dutta, D.J., 1994, Borehole dc resistivity response for a transitional invaded zone: Geophysics, v. 59, no. 12, p. 1796-1805.

Samworth, J., Spencer, M., Patel, H., and Attack, N., 1994, The Array Induction Tool advances slim-hole logging technology, paper Y, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 14 p.

Sandor, R., Bonnie, R., Tutunjian, P., and Ferris, J., 1994, Frequency dependence of NMR measurements on rock samples, paper L, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 8 p.

Sasaki, Y., 1994, Anisotropic resistivity tomography--a model study for characterization of fractured rocks, DP1.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 252-255.

Sato, M., Miwa, T., and Niitsuma, H., 1995, Application of polarimetric borehole radar to crack characterization, paper FFF, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Shaaban, F.F., 1994, A new approach to analytical correction of dual laterologs: Computers and Geosciences, v. 20, no. 7/8, p. 1259-1262.

Singer, B.S., Fanin, O., Strack, K.-M., Tabarovsky, L.A., and Zhang, X., 1995, Through-casing resistivity: 2-D and 3-D distortions and correction techniques, paper PP, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Spies, B.R., and Habashy, T.M., 1995, Sensitivity analysis of crosswell electromagnetic tomography: Geophysics, v. 60, no. 3, p. 834-845.

Torres-Verdin, C., and Habashy, T.M., 1995, Cross-well electromagnetic tomography, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de

Janeiro, v. 2, p. 1400-1405.

Vail, W.B., and Momii, S.T., Haines, H., Gould, J.F., Jr., and Kennedy, W.D., 1995, Formation resistivity measurements through metal casing at the MWX-2 well in Rifle, Colorado, paper OO, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Vinegar, H., 1995, NMR log interpretation with examples, chapter 8, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Vinegar, H., 1995, Relaxation mechanisms, chapter 3, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Warrilow, I.M., Ibrahim, R., Chin, H.T., and Forsyth, D., 1995, Application of resistivity inversion software to thin-bed evaluation, SPE-29263, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 123-138.

Whitman, W.W., 1995, Interpretation of unfocused resistivity logs: The Log Analyst, v. 36, no. 1, p. 35-39

Wilt, M., 1992, Monitoring of thermal enhanced oil recovery processes with electromagnetic methods: Lawrence Livermore National Laboratory Report No. UCRL-JC-111579, 15 p.

Wilt, M., 1994, Reservoir characterization and process monitoring with EM methods: U.S. Department of Energy Report DOE/BC/94000147, 10 p.

Wilt, M.J., Alumbaugh, D.L., Morrison, H.F., Becker, A., Kee, K.H., and Deszcz-Pan, M., 1995, Crosswell electromagnetic tomography--system design considerations and field results: Geophysics, v. 60, no. 3, p. 871-885.

Wilt, M., Morrison, H.F., Becker, A., and Tseng, H-W., Lee, K., Torres-Verdin, C., and Alumbaugh, D., 1995, Crosshole electromagnetic tomography--a new technology for oil field characterization: The Leading Edge, v. 14, no. 3, p. 173-177.

Wilt, M., Schenkel, C., Torres-Verdin, C., Lee, K., and Tseng, H., 1994, Crosshole EM for oil field characterization and EOR monitoring--field examples, WS2.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1676-1679.

Wright, D.L., Grover, T.P., Labson, V.F., Pellerin, L., Ellefsen, K.J., and Bradley, J.A., 1995, Tomography between wells, a transient dielectric logging tool, and the very early time electromagnetic (VETEM) system, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 501-510.

Yuan, H., 1995, NMR logging--the new measurement: Shell International Petroleum Maatschappij, 8 p.

Zainalabedin, K.A., and Minh, C.C., 1995, Applications of the Array Induction Tool in Saudi Arabia, SPE-29837, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 581-596.:

Zhang, Y-C., Shen, L.C., and Liu, C., 1994, Inversion of induction logs based on maximum flatness, maximum oil, and minimum oil algorithms: Geophysics, v. 59, no. 9, p. 1320-1326.

Return to Main Menu

V. MWD (Measurement While Drilling); Horizontal Wells Drilling/Logging (See also II. General Log Interpretation)

Allen, D.F., Best D.L., Evans, M., and Holenka, J., 1990, The effect of wellbore condition on wireline and MWD neutron density logs, SPE-20563, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 345-356. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 235-246. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 194-200.

Austin, S., Yale, D., Page, G., and Went, D., 1994, The observation of anomalous sonic log responses in deviated wells in the southern North Sea, paper U, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Baker, C., Fristad, P., and Seim, P., 1987, Reservoir evaluation with MWD logs, paper B, in 28th annual logging symposium transactions: Society of Professional Well Log Analysts, 19 p. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 335-353.

Ball, S., Yee, S., Maranuk, C., and Bittar, M., 1995, Case histories and applications of a new slimhole MWD multiple-depth-of-investigation resistivity sensor, SPE/IADC-29435, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 891-902.

Bay, A.M., Ablewhite, P.K., and Barnett, S., 1993, The importance of production logging in the monitoring of production in horizontal wells, paper 24, in 5th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 15 p.

Belfield, W.C., and Sovich, J.P., 1995, Fracture statistics from horizontal wellbores: Journal of Canadian Petroleum Technology, v. 34, no. 6, p. 47-50.

Bergt, D., 1995, Resistivity measurements at the bit provide real-time formation evaluation before invasion: Journal of Petroleum Technology, v., 47, no. 6, p. 492.

Bigio, D., Rike, A., Christensen, A., Collins, J., Hardman, D., Doremus, D., Tracy, P., Glass, G., Joergensen, N.B., and Stephens, D., 1994, Coiled tubing takes center stage: Schlumberger Oilfield Review, v. 6, no. 4, p. 9-23.

Birchak, J.R., Matthews, R.G., Moake, G.L., and Schultz, W.E., 1993, Standoff and caliper measurements while drilling using a new formation-evaluation tool with three ultrasonic transducers, SPE-26494, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 793-806. Later published in 1994, in 2nd international symposium on well logging transactions: Society of Professional Well Log Analysts, Beijing Chapter, p. 181-187. Later published in 1995, as Moake, G.L., Birchak, J.R., Schultz, W.E., and Matthews, R.G.: SPE Drilling Completion, v. 10, no. 2, p. 104-111.

Brami, J.B., 1991, Current calibration and quality control practices for selected measurement-while-drilling tools, SPE-22540, in SPE annual technical conference and

exhibition, v. delta, Drilling: Society of Petroleum Engineers, p. 49-64. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 431-446. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 11-26.

Brown, G., Rees, H., and Toro, M., 1995, Using production-log data from horizontal wells, paper SS, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

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.

Butler, R.M., 1994, Logging horizontal wells, chapter 3, in Horizontal wells for the recovery of oil, gas, and bitumen: Petroleum Society of CIM [Canadian Institute of Mining and Metallurgy], Calgary Section, p. 33-39.

Chardac, J-L., and El-Sayed, H., 1995, Applications of a new multi-resistivity and imaging tool in the Middle East, SPE-29838, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 589-596.

Coope, D.F., 1983, Gamma ray measurement-while-drilling: The Log Analyst, v. 24, no. 1, p. 3-9. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 33-40. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 139-145.

Crouse, P.C., 1991, Reservoir characterization for horizontal wells, paper 34, in 3rd World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 15 p.

Cuddy, S., Day, S., Page, G., and Fletcher, S., 1994, The observed effects of high deviation wells on porosity measurements--a discussion of potential explanations, paper T, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 22 p.

Cunningham, A.B., Jay, K.L., and Opstad, E., 1990, Applications of MWD technology in nonconventional wells, Prudhoe Bay, North Slope Alaska, paper D, in 31st annual logging symposium transactions: Society of Professional Well Log Analysts, 24 p. Later published in 1992: The Log Analyst, v. 32, no. 1, January-February, p. 13-24. Also published in 1992 in abridged form as, Unconventional Prudhoe Bay wells benefit from MWD use: World Oil, v. 213, no. 5, p. 43-48, 52. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 473-496. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 207-216.

Dobb, A., Robertson, G., Reilly, J.M., and Purpich, A.J., 1995, The use of well seismic profiles and LWD to steer a horizontal well: Petroleum Geoscience, v. 1, no. 1, p. 3-11.

Eide, E., Brinkhorst, J., Volker, H., Burge, P., and Ewen, R.L., 1994, Further advances in coiled-tubing drilling, SPE-28866, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 11-19. Later published in 1995: Journal of Petroleum Technology, v. 47, no. 5, p. 403-408.

Fagin, R., and Hutchinson, M., 1994, MWD advances reduce drilling costs: American Oil and Gas Reporter, v. 37, no. 10, p. 41-45.

Grant, N.T., and Sloan, H., 1994, Plotting log data from deviated and horizontal wells--a

spreadsheet-based method: *First Break*, v. 12, no. 12, p. 597-604.

Gray, I., McElhinney, G., and Bamberger, R., 1994, LWD measurements--enhancement of the horizontal well drilling process, paper R, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 15 p.

Hagiwara, T., 1995, Anisotropic shale and induction log shoulder bed corrections for deviated boreholes, paper Z, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hardman, R., 1994, Induction and MWD resistivity tools in horizontal wells, paper 94-22, in 45th annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

Hardman, P., Lawson, B., and Rowson, C., 1994, MWD tool enables twin-well drilling: *American Oil and Gas Reporter*, v. 37, no. 10, p. 46-50.

Hearn, F., 1994, Formation evaluation MWD enters a new capability realm: *World Oil*, v. 215, no. 11, p. 75-81.

Hill, R., Middlebrook, M., Peterson, R., Johnson, E., McKetta, S., Wilson, G., and Branagan, P., 1993, Horizontal gas well completion technology in the Barnett Shale--analysis of the Mitchell Energy Corporation T.P. Sims B No. 1, Wise County, Texas: Gas Research Institute Report GRI-93/0282, 56 p.

Hodenfield, K., and Scanlan, B., 1992, Acquisition and interpretation of horizontal well logs, in Knauer, L.C., ed., *Applications of horizontal drilling in California: AAPG Pacific Section Publication MP-42*, p. 147-166.

Holenka, J., Best, D., Evans, M., Kurkoski, P. and Sloan, W., 1995, Azimuthal porosity while drilling, paper BB, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Husband, F.J., Palomo, R.M., and Roca, L.R., 1994, Logging while drilling applications in Latin America and the Caribbean, SPE-28727, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 561-572.

Hutchinson, M.W., 1991, Comparisons of MWD, wireline, and core data from a borehole test facility, SPE-22735, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 741-754. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 38-51.

Ishak, I.B., Steele, R.P., Maccaulay, R.C., Stephenson, P.M., and Al Mantheri, S.M., 1995, Review of horizontal drilling, SPE-29812, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 391-404.:

Kirkman, M., and Seim, P., 1989, Depth measurements with wireline and MWD logs: Society of Professional Well Log Analysts, Norwegian Chapter short course. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 27-33.

Knauer, L.C., ed., 1992, *Applications of horizontal drilling in California: AAPG Pacific Section Publication MP-42*, 260 p.

Leake, J., and Shray, F., 1991, Logging while drilling keeps horizontal well on small

target: Oil and Gas Journal, v. 89, no. 38, September 23, p. 53-59. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 201-206.

Lovell, J.R., Rosthal, R.A., Arceneaux, C.L., Jr., Young, R.A., and Buffington, L., 1995, Structural interpretation of resistivity-at-the-bit images, paper TT, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Meyer, W.H., 1995, New two frequency propagation resistivity tools, paper XX, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Meyer, W.H., Wu, J-Q., Macune, D.T., and Harvey, P.R., 1994, Near-bit propagation resistivity for reservoir navigation, SPE-28318, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 263-275. Also published as Geosteering with near-bit formation evaluation sensors, SPE-28905: Society of Petroleum Engineers. An extended abstract published in 1995 as, SPE-30142: Journal of Petroleum Technology, v. 47, no.2, p. 117-118.

Minear, J., Birkchak, R., Robbins, C., Linyaev, E., Mackie, B., Young, D., and Malloy, R., 1995, Compressional slowness measurements while drilling, paper VV, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Minette, D.C., and Flynn, T., 1995, The accuracy and precision of FEMWD density tool, paper B, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Naville, C., Layotte, P.C., Pignard, G., and Guesnon, J., 1994, Well seismic--application of the TRAFOR MWD system to drill-bit seismic profiling [abs.], G045, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Nice, S.B., 1993, Production logging in horizontal wellbores, in 5th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 7 p.

Nurmi, R., Wiltse, E., and Sapnu, A., 1995, Middle East reservoir characterization improved by data from horizontal wells, SPE-29816, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 445-451.

Orban, J.J., Dennison, M.S., Jorion, B.M., and Mayes, J.C., 1991, New ultrasonic caliper for MWD operations, SPE/IADC-21947, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 439-448. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 184-193.

Pratt, C.K., and Hartmann, R.A., 1994, A magnetostatic well tracking technique for drilling of horizontal parallel wells, SPE-28319, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 277-290. An extended abstract published in 1995: Journal of Petroleum Technology, v. 47, no. 2, p. 119-120.

Prensky, S.E., 1994, Capabilities of MWD tools broadened by advances: American Oil and Gas Reporter, v. 37, no. 10, p. 35-41.

Rasmus, J.C., and Stephens, D.M.R.G., 1990, Real-time pore pressure evaluation utilizing MWD/LWD measurements and drilling-derived formation strength, SPE-20443, in SPE annual technical conference and exhibition, proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 403-411. Later published in 1991: SPE Drilling Engineering, v. 6, no. 4, December, p. 264-272. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 130-138.

Rodney, P.F., Mack, S.G., Bittar, M.S., Bartel, R.P., 1991, An MWD multiple depth of investigation electromagnetic wave resistivity sensor, paper D, in 32nd annual logging symposium transactions: Society of Professional Well Log Analysts, 25 p. A similar paper also published in 1991 as, Bittar, M.S., Rodney, P.F., Mack, S.G., and Bartel, R.P., A true multiple depth of investigation electromagnetic wave resistivity sensor--theory, experiment, and prototype field test results, SPE-22705: Society of Petroleum Engineers, presented at 66th Annual Technical Conference and Exhibition [not included in proceedings], 18 p. A condensed version later published in 1992 as, Mack, S.G., Rodney, P.F., and Bittar, M.S., MWD tool accurately measures four resistivities: Oil and Gas Journal, v. 90, no. 21, May 25, p. 42-46. Later published in 1993: SPE Formation Evaluation, v. 8, no. 3, p. 171-176. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 155-160.

Sagot, A.M., and Dupuis, D.C., 1994, A major step in ultra slimhole drilling, SPE-28299, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 81-90.

Schroeder, T., Mathis, D., Howard, R., Williams, G., and Sun, J., 1995, Teamwork and geosteering pay off in horizontal project: Oil and Gas Journal, v. 93, no. 9, February 27, p.33-38.

Sherrard, D.W., 1995, Prediction and evaluation of horizontal well performance--North Slope, Alaska: Petroleum Geoscience, v. 1, no. 1, p. 3-11.

Soudet, H.-J., Sorriaux, P., and Rolando, J.-P., 1994, Relationship between fractures and karstification; the oil bearing paleokarst of Rospo Mare (Italy) [in French]: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 1, p. 257-297.

Spross, R.L., Burnett, T.M., Golla, C.A., and Huiszoon, C., 1995, Accurate MWD density measurements with very large standoffs, paper UU, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

van den Bosch, R., 1994, Logging with coiled tubing less effective than with drill pipe, paper Q, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 10 p.

White, J., 1992, Planning for the unexpected in evaluating horizontal wells, in 4th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 8 p.

Wolcott, D.S., Shafer, D., and Vittachi, A., 1995, Characterization of a heterogeneous formation using azimuthal logging-while-drilling (LWD) measurements, paper Y, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 8 p.

Wraight, P., Evans, M., Marienbach, E., Rhein-Knudsen, E., and Best, D., 1989,

Combination formation density and neutron porosity measurements while drilling, paper B, in 30th annual logging symposium transactions: Society of Professional Well Log Analysts, 23 p. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 211-234. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 161-183.

Return to Main Menu

VI. Cased Hole and Production Logging; Determination of ROS

(See also VIII. Nuclear Logging)

Arthur, J.D., Thornhill, J., and Williams, T.M., 1991, Oxygen activation logging as a method of demonstrating external mechanical integrity on injection wells, in Summer meeting proceedings: Underground Injection Practices Council, p. 141-148.

Asquith, G.B., Thomerson, M.D., and Arnold, M.D., 1993, Recognizing Bell Canyon and Cherry Canyon 'behind pipe' pay sands, Reeves and Culberson Counties, Texas, in 40th annual southwestern petroleum short course, proceedings: Southwestern Petroleum Short Course Association, Lubbock, Texas, p. 361-375.

Ayan, C., Colley, N., Cowanb, G., Ezekwe, E., Wannell, M., Goode, P., Halford, F., Joseph, J., Mongini, A., Obondoko, G., and Pop, J., 1994, Measuring permeability anisotropy--the latest approach: Schlumberger Oilfield Review, v. 6, no. 4, p. 24-35.

Basin, Y.N., Martiyanov, I.A., and Petrosyan, L.G., 1995, Interpretation of pulsed neutron log: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 17 p.

Bay, A.M., Ablewhite, P.K., and Barnett, S., 1993, The importance of production logging in the monitoring of production in horizontal wells, paper 24, in 5th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 15 p.

Blevins, D.M., Jr., and Fairborn, J.W., 1995, An application of crosswell tomography using a hydrophone receiver array to monitor steam migration in an unconsolidate, heavy-oil sandstone, West Coalinga field, California, SPE-29651, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 359-367.

Brown, G., Rees, H., and Toro, M., 1995, Using production-log data from horizontal wells, paper SS, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Bush, K., Chudy, S., Mirzwiniski, R., and Schuh, P., 1994, Carbon/oxygen logging --a case history, paper CC, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 16 p.

Butler, D.B., and Knight, R.J., 1995, The effect of steam quality on the electrical behavior of steam-flooded sands--a laboratory study: Geophysics, v. 60, no. 4, p. 998-1006.

Case, C.R., Flaum, C., Wraight, P.D., and DasGupta, T., 1995, Improved porosity estimation in invaded gas reservoirs using a pulsed neutron porosity device, paper X, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 9 p.

Chudy, S., McIntyre, G., and Schuh, 12 p., 1995, Cased hole acoustic logging--a solution to a problem, paper I, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Davis, E.R., Zhu, D., and Hill, A.D., 1995, Interpretation of fracture height from temperature logs--the effect of wellbore/fracture separation, SPE-29588, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 415-426. Also published in 1995, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 981-992..

Deans, H.A., and Mut, A.D., 1994, Chemical tracer studies to determine Sw, Sadlerochit reservoir, PBU, SPE-29591, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 291-301.

Farnan, R.A., Piggin, R.H., and Black, A.J., 1994, Use of deep density borehole gravimeter to establish fluid saturation changes in a North Sea reservoir [abs.], P021, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p. Also published in 1994 as, Deep density borehole gravimeter measurements of fluid saturations in a North Sea reservoir compared to fluid saturations measured with resistivity logs, paper V, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 2 p.

Flolo, L.H., 1994, Residual oil saturation after gas-flooding--A TDT-P case study, paper BB, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 20 p.

Fyllin, A., 1994, The application of logs in evaluating oil saturation after water flooding in two major North Sea oil fields, paper EE, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 22 p.

Goode, P.A., Sibbit, A.M., and Looi, S.Y., 1994, Reservoir saturation determination in the Eromanga Basin using carbon/oxygen logging, SPE-28798, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 537-551.

Haley, R.A., 1993, Pulsed neutron capture log interpretation in laminated formations--a dual exponential decay model, SPE-26126: Society of Petroleum Engineers, unsolicited paper, 34 p. Later published in 1995: SPE Formation Evaluation, v. 10, no. 1, p. 20-25.

Harris, J.M., Nolen-Hoeksema, R.C., Langan, R.T., van Schaack, M., Lazaratos, S.K., and Rector, J.W., III, 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, par 1--summary and interpretation: Geophysics, v. 60, no. 3, p. 667-681.

Harris, P., Holsclaw, S., Mullen, M., Sagan, M., and Frisch, G., 1994, The use of production logs to evaluate completion and stimulation effectiveness, SPE-29178, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 197-212.

Hayman, A.J., Parent, P., Rouault, G., Zurquiyah, S., Verges, P., Liang, K. Stanke, F.E., and Herve, 12 p., 1995, Developments in corrosion logging using ultrasonic imaging, paper W, in 36th annual logging symposium transactions: Society of Professional Well

Log Analysts, 12 p.

Horkowitz, J.P., Hartman, D.E., Clerke, E.A., Vinegar, H.J., and Coates, G.R., 1995, Residual oil saturation measurements in carbonates with pulsed NMR logs, paper Q, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Isambourg, P. and Essel, P., 1994, Cement logging--toward an analysis of the quality of cement-formation bonding [in French]: *Revue de l'Institut Francais du Petrole*, v. 49, no. 3, p. 225-234.

Kessler, C., and Frisch, G., 1995, New fullbore production logging sensor improves the evaluation of production in deviated and horizontal wells, SPE-29815, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 431-444.:

Koster, K., Williams, M., Esmersoy, C., and Walsh, J., 1994, Applied production geophysics using shear-wave anisotropy--production applications for the dipole shear imager and the multicomponent VSP, DP1.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 233-235.

Lee, D.S., Stevenson, V.M., Johnston, P.F., and Mullen, C.E., 1995, Time-lapse crosswell seismic tomography to characterize flow structure in the reservoir during thermal stimulation: *Geophysics*, v. 60, no. 6, p. 660-666.

Mathisen, M.E., Vasiliou, A.A., Cunningham, P., Shaw, J., Justice, J.H., and Guinzy, N.J., 1995, Time-lapse crosswell seismic tomogram interpretation--implications for heavy oil reservoir characterization, thermal recovery process monitoring, and tomographic imaging technology: *Geophysics*, v. 60, no. 6, p. 631-650.

Molz, F.J., Boman, G.K., Young, S.C., Waldrop, W.R., 1994, Borehole flowmeters--field application and data analysis: *Journal of Hydrology*, v. 163, p. 347-371.

Moos, D., Hara, S., Phillips, C., Hooks, A., and Tagbor, K., 1995, Field test of acoustic logs for measuring porosity and oi saturation in a mature waterflood in the Wilmington field, California, SPE-29655, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 395-408.

Mullen, M., Saga, M., and Frisch, G., 1994, Evaluating completion and stimulation effectiveness of multi-zone wells with production logs, in Gibbs, J.F., ed., *Synergy, equals energy--teams, tools, and techniques*: West Texas Geological Society, Fall Symposium, p. 119-129.

Muttoni, A., and Cannatelli, D., 1994, Integration of production log and oxygen activation techniques aimed at the diagnosis of water production problems, SPE-27598, in European production operations conference and exhibition proceedings: Society of Petroleum Engineers, p. 81-92. Also published in 1994: *Journal of Petroleum Technology*, v. 890-898.

Narayan, S., and Dusseault, M.B., 1995, Electrical resistance tomography for monitoring shallow enhanced recovery processes, SPE-30259, in International heavy oil symposium proceedings: Society of Petroleum Engineers, 183-194.

Neuman, C.H., 1978, Log core measurements of oil in place, San Joaquin Valley, SPE-7146: Society of Petroleum Engineers. Later published in 1980: *Journal of Petroleum Technology*, v. Later reprinted in 1994, in *Petrophysics*: Society of Petroleum Engineers

Reprint Series No. 39, p. 152-158.

Nice, S.B., 1993, Production logging in horizontal wellbores, in 5th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 7 p.

Nolen-Hoeksema, R.C., Wang, Z., Harris, J.M., Langan, R.T., 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, par 5--core analysis: Geophysics, v. 60, no. 3, p. 712-726.

Oraby, M.E., 1995, A lithology independent through casing porosity and water saturation model LIPS, SPE-29516, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 665-682..

Patterson, D., 1994, Acoustic tools acquire data through casing: American Oil and Gas reporter, v. 37, no. 8, p. 84-87.

Pospisil, G., Carpenter, C.C., and Pearson, C.M., 1995, Impacts of oriented perforating on fracture stimulation treatments--Kuparuk River field, Alaska, SPE-29645, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 305-311.

Razi, M., Morriss, S.L., and Podio, A.L., 1995, Characterizing flow through a perforation using ultrasonic doppler, SPE-29544, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 943-953.

Roscoe, B., Grau, J., Minh, C.C., and Freeman, D., 1995, Non-conventional applications of through-tubing carbon-oxygen logging tools, paper QQ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Rouillac, D., 1994, Cement evaluation logging handbook: Editions Technip, 176 p.

Schnorr, D.R., 1995, Optimizing water injection profiles with oxygen activation logging, SPE-29517, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 683-691.

Singer, B.S., Fanin, O., Strack, K.-M., Tabarovsky, L.A., and Zhang, X., 1995, Through-casing resistivity: 2-D and 3-D distortions and correction techniques, paper PP, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Sorensen, M., and Ward, R., 1994, Pulsed neutron capture logging in the Scott Field, paper DD, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 12 p.

Starcher, M.G., Murphy, J.R., Alexander, P.D., and Whittaker, J.L., 1995, Video camera log used for water isolation in the Main Body "B" pool, Elk Hills field, Kern County, California--water and oil, SPE-29654, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 383-394.

Thornhill, J.T., and Benefield, B.G., 1992, Detecting water flow behind pipe in injection wells: U.S. Environmental Protection Agency Report EPA/600/R-92/041, 82 p.

Timur, A., 1968, An investigation of permeability, porosity, and residual water saturation relationships for sandstone reservoirs, paper J, in 9th annual well logging symposium transactions: Society of Professional Well Log Analysts, 18 p. Later published in 1968: The Log Analyst, v. 9, no. 4, July-August, p. 8-17. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 128-137.

Uswak, G., and McLafferty, N., 1993, Cement imaging through ultrasonics, paper 93-

302, in CADE/CAODC Spring drilling conference proceedings: Canadian Association of Drilling Engineers, Calgary, Alberta, 12 p.

Vail, W.B., and Momii, S.T., Haines, H., Gould, J.F., Jr., and Kennedy, W.D., 1995, Formation resistivity measurements through metal casing at the MWX-2 well in Rifle, Colorado, paper OO, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Verma, M.K., Boucerit, M.A.G., and Bouvier, L., 1991, Evaluation of residual oil saturation after waterflood in a carbonate reservoir, SPE-21371, in SPE 7th Middle East oil show conference proceedings: Society of Petroleum Engineers, p. 305-320. Later published in 1994: SPE Reservoir Engineering, v. 9, no. 4, p. 247-253.

Zalen, T.A., Henshaw, P.C., Abels, H.P., II, Owens, B.K., Guo, D.S., Salaita, G.N., and Mikulich, W., 1995, Pulsed neutron spectroscopy logs add value to steam flood management process by monitoring oil saturation in Kern River field, California, SPE-29650, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 347-358.

Zemel, B., 1995, Measurements and applications, chapter 2, in Tracers in the oil field: Elsevier Science, Amsterdam, Developments in Petroleum Science No. 43, p. 39-87.

Zemel, B., 1995, Tracers in the oil field: Elsevier Science, Amsterdam, Developments in Petroleum Science No. 43, 487 p.

Zemel, B., 1995, Unconventional waterflood tracing, chapter 5, in Tracers in the oil field: Elsevier Science, Amsterdam, Developments in Petroleum Science No. 43, p. 191-242.

Zemel, B., 1995, Downhole tracers, chapter 7, in Tracers in the oil field: Elsevier Science, Amsterdam, Developments in Petroleum Science No. 43, p. 293-369.

Return to Main Menu

VII. Acoustic Logging

(Including P and S, Full Waveform, Borehole Seismic, and VSP) (See also 15. Fracture Detection)

Adamick, J., Hall, D., Skoyles, D., Dewildt, J., and Erickson, J., 1994, AVO as an exploration tool--Gulf of Mexico case studies and examples, SL2.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1107-1111.

Akbar, N., and Kim, J.J., 1994, Permeability extraction--a sonic log inversion, DP3.8, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 311-314.

Allen, J.L., and Peddy, C.P., 1993, Amplitude variation with offset--Gulf Coast case studies: Society of Exploration Geophysicists, Geophysical Development Series, v. 4, 126 p.

Armstrong, P., Ireson, D., Chmela, B., Dodds, K., Esmeroy, C., Miller, D., Hornby, B., Sayers, C., Schoenberg, M., Leaney, S., Lynn, H., 1994, The promise of elastic anisotropy: Schlumberger Oilfield Review, v. 6, no. 4, p. 36-47.

Ata, E., and Michelena, R.J., 1995, Mapping distribution of fractures in a reservoir with P-S converted waves: The Leading Edge, v. 14, no. 6, p. 664-676.

Austin, S., Yale, D., Page, G., and Went, D., 1994, The observation of anomalous sonic

log responses in deviated wells in the southern North Sea, paper U, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Ball, V., and Batzle, M., 1994, Contrasting stress dependence of compressional and shear velocities--implications for laboratory, logging, and seismic measurements, SL1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1065-1068.

Bang, J., Mjaaland, S., Solstad, A., Hendriks, P., and Jensen, L.K., 1994, Acoustic gas kick detection with wellhead sonar, SPE-28317, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 249-261.

Bashore, W.M., Langan, R.T., Tucker, K.E., and Griffith, P.J., 1995, Geostatistical integration of crosswell data for carbonate reservoir modeling, McElroy field, Texas, in Stoudt, E.L., and Harris, P.M., eds., Hydrocarbon reservoir characterization--geologic framework and flow unit modeling: SEPM [Society for Sedimentary Geology] Short Course Notes No. 34, p. 199-225.

Benson, A.K., 1994, Effects of shale and contaminants on (V_s/V_p) ratios in transversely-isotropic geology, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 305-319.

Best, A., 1994, The effect of pressure on velocity anisotropy in reservoir sedimentary rocks [abs.], P108, and The effect of pressure on seismic velocity and attenuation in reservoir rocks [abs.], I042, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Best, A.I., and McCann, C., 1995, Seismic attenuation and pore-fluid viscosity in clay-rich reservoir sandstones: Geophysics, v. 60, no. 5, p. 1386-1397.

Blanche, J.P., Capelle, P., Marraud, J., and Ducasse, M.-L., 1994, Heimdal monitoring III--seismic monitoring, methods, and results, DP4.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 335-337.

Blanco, J., Breton, P., and Maocec, E., 1994, Heimdal monitoring II--comprehensive log-seismic calibration in using VSP data, DP4.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 331-334.

Blevins, D.M., Jr., and Fairborn, J.W., 1995, An application of crosswell tomography using a hydrophone receiver array to monitor steam migration in an unconsolidate, heavy-oil sandstone, West Coalinga field, California, SPE-29651, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 359-367.

Brown, R.L., Parra, J.O., and Siefert, D., 1994, Reconciled surface and borehole measurements--a case history, IM1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 467-470.

Bryant, S., and Raikes, S., 1995, Prediction of elastic-wave velocities in sandstones using structural models: Geophysics, v. 60, no. 2, March-April, p. 437-446.

Bunch, A.W.H., and Dromgoole, P.W., 1995, Lithology and fluid prediction from seismic and well data: Petroleum Geoscience, v. 1, no. 1, p. 49-57.

Castagna, J.P., Han, D-H., and Batzle, M.L., 1995, Issues in rock physics and

implications for DHI [direct hydrocarbon indicator] interpretation: *The Leading Edge*, v. 14, no. 8, p. 883-885.

Castagna, J.P., and Smith, S.W., 1994, Comparison of AVO indicators--a modeling study: *Geophysics*, v. 59, no. 12, p. 1849-1855.

Castrejon-Vacio, F., and Porres-Luna, A.A., 1994, Use of seismic attributes in geological description of carbonate rocks, SPE-28673, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 49-60.

Chudy, S., McIntyre, G., and Schuh, 12 p., 1995, Cased hole acoustic logging--a solution to a problem, paper I, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Cicerone, R.D., and Toksoz, M.N., 1995, Fracture characterization from vertical seismic profiling data: *Journal of Geophysical Research*, v. 100, no. B3, March 10, p. 4131-4148.

Coppens, F., and Mari, J.L., 1995, Application of the intercept time method to full wave form acoustic data: *First Break*, v. 13, no. 1, p. 11-20.

Coulombe, C.A., 1993, Amplitude-versus-offset analysis using vertical seismic profiling and well-log data: Calgary University, Alberta, Canada, unpublished MS thesis, 168 p.

Crampin, S., 1993, Shear-wave anisotropy and fracture criticality--the potential for monitoring hydrocarbon production, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1516-1521.

Crampin, S., and Booth, D.C., 1989, Shear-wave splitting showing hydraulic dilation of pre-existing joints in granite: *Scientific Drilling*, v. 1, no. 1, p. 21-26.

Cuddy, S., Day, S., Page, G., and Fletcher, S., 1994, The observed effects of high deviation wells on porosity measurements--a discussion of potential explanations, paper T, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 22 p.

Davidson, J.A., Morriss, S.L., and Podio, A.L., 1992, Estimates of formation sound speed from ultrasonic reflections, SPE-24688, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 287-298. Later published in 1995: *SPE Formation Evaluation*, v. 10, no. 2, p. 72-78.

De, G.S., Winsterstein, D.F., and Meadows, M.A., 1994, Comparison of P- and S-wave velocities and Q's from VSP and sonic log data: *Geophysics*, v. 59, no. 10, p. 1512-1529.

Dillon, P.B., 1994, Acoustic-log resolution from VSP data [abs.]?, G027, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Disiena, J.P., and Hilterman, F.J., 1994, Density estimation from the sonic log--a case study, SL2.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1096-1099.

Dobrynin, V.M., Chernoglazov, V.N., and Gorodnov, A.V., 1995, Determination of oil saturation by the multiwave sonic log: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging

Symposium, Paris, 13 p.

Domenico, N., 1995, Poisson's ratio--an interdisciplinary link?: *The Leading Edge*, v. 14, no. 9, p. 983-986

Dvorkin, J., Yin, H., and Knight, R., 1994, Seismic detection of residual contaminants, NS2.3, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 584-586.

Ellis, D., Howard, J., Flaum, C., McKeon, D., Scott, H., Serra, O., Simmons, G., 1988, Mineral logging parameters--Nuclear and acoustic: *The Technical Review*, v. 36, no. 1, p. 38-52. Reprinted in 1990, in Foster, N.H., and Beaumont, E.A., eds., *Formation evaluation I--log evaluation: AAPG Treatise of Petroleum Geology Reprint Series No. 16*, p. 460-474. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 52-66.

Esmersoy, C., Kane, M., Boyd, A., and Denoo, S., 1995, Fracture and stress evaluation using dipole-shear anisotropy logs, paper J, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 12 p.

Fatti, J.L., Smith, G.C., Vail, P.J., Strauss, P.J., and Levitt, P.R., 1994, Detection of gas in sandstone reservoirs using AVO analysis--a 3-D seismic case history using the Geostack technique: *Geophysics*, v. 59, no. 9, p. 1362-1376.

Grauls, D., Dunard, J.P., and Beaufort, D., 1995, Predicting abnormal pressure from 2-D seismic velocity modeling, OTC-7692, in *27th annual offshore technology conference proceedings, v. 1, Geology, earth sciences and environmental factors: Society of Petroleum Engineers*, p. 525-534.

Gurevich, B., and Lopatnikov, S.L., 1995, Velocity and attenuation of elastic waves in finely layered porous rocks: *Geophysical Journal International*, v. 121, no. 3, p. 933-947.

Haldorsen, J.B.U., Miller, D.E., and Walsh, J.J., 1995, Walk-away VSP using drill noise as a source: *Geophysics*, v. 60, no. 4, p. 978-997.

Hall, D.J., Adamick, J.A., Skoyles, D., DeWildt, J., and Erickson, J., 1995, AVO as an exploration tool--Gulf of Mexico case studies and examples: *The Leading Edge*, v. 14, no. 8, p. 863-868.

Han, D-H., 1994, Weak cementation effect on velocities of sands, SL1.4, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 1069-1072.

Hardage, B.A., Levey, R.A., Pendleton, V., Simmons, J., and Edson, R., 1994, A 3-D seismic case history evaluating fluviially deposited thin-bed reservoirs in a gas-producing property: *Geophysics*, v. 59, no 11, p. 1650-1665.

Hayles, J.G., Stevens, K.M., Serzu, M.H., and Lodha, G.S., 1992, Developments in the mini-charts system and field trial results in measuring excavation damage in granite, in *4th international symposium on borehole geophysics for minerals, geotechnical and groundwater applications, proceedings: Society of Professional Well Log Analysts, Minerals and Geotechnical Logging Society, Chapter-at-Large*, p. 267-306. Later published in 1995: *The Log Analyst*, v. 36, no. 3, p. 12-37.

Hillis, R.R., 1993, Quantifying erosion in sedimentary basins from sonic velocities in shales and sandstones: *Exploration Geophysics*, v. 24, p. 561-566.

Imazumi, T., and Kozawa, T., 1994, Gas reservoir delineation by shear wave VSP

[abs.], G042, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Jizba, D.L., and Marion, D.P., 1994, Heimdal monitoring I--establishing feasibility from cores and logs, DP4.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 327-330.

Johansen, T.A., and Kenstrom, R., 1993, Evaluation of formation properties from acoustic data, in Lerkendal petroleum engineering workshop proceedings: Norwegian Institute of Technology, Trondheim, Norway, p. 83-97.

Johnson, W.E., 1995, Direct detection of gas in pre-Tertiary sediments?: The Leading Edge, v. 14, no. 2, p. 119-122.

Johnston, J.E., and Christiansen, N.I., 1995, Seismic anisotropy of shales: Journal of Geophysical Research, v. 100, no. B4, April 10, p. 5991-6003.

Kasha, L., Richards, S., and McDonald, J., 1993, Through casing fracture detection in the Trenton dolomite using sonic techniques, paper 3, in 32nd annual conference proceedings: Ontario Petroleum Institute, Ontario, Canada, 15 p.

Klimentos, T., 1995, Petrophysics and seismic wave technology--applications in exploration, formation evaluation, and reservoir characterization, SPE-29887, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 503-518.:

Klimentos, T., 1995, Attenuation of P- and S-waves as a method of distinguishing gas and condensate from oil and water: Geophysics, v. 60, no. 2, March-April, p. 447-458.

Koster, K., Williams, M., Esmersoy, C., and Walsh, J., 1994, Applied production geophysics using shear-wave anisotropy--production applications for the dipole shear imager and the multicomponent VSP, DP1.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 233-235.

Leaney, W.S., 1993, AVO and anisotropy from logs and walkaways: Exploration Geophysics, v. 24, p. 623-630.

Lee, D.S., Stevenson, V.M., Johnston, P.F., and Mullen, C.E., 1995, Time-lapse crosswell seismic tomography to characterize flow structure in the reservoir during thermal stimulation: Geophysics, v. 60, no. 6, p. 660-666.

Lee, D.S., Walden, A., and Wachi, N., 1994, Fracture characterization of the Monterey Formation using VSP: Journal of Seismic Exploration, v. 3, no. 4, p. 335-350.

Link, C.A., 1993, Crosshole seismic analysis for reservoir characterization and lithology identification: University of Houston, Texas, unpublished Ph.D. dissertation, 231 p.

Link, C.A., McDonald, J.A., Ebrom, D.A., and Zhou, H-W., 1993, Characterization of lithology using crosshole methods: Exploration Geophysics, v. 24, p. 645-654.

Lines, L., Tan, H., Trietel, S., Beck, J., Chambers, R., Eager, J., Savage, C., Queen, J., Rizer, W., Buller, P., Cox, D., Ballard, J., Kokkoros, G., Sinton, J., Track, A., Guerendel, P., Harris, J., Lazaratos, S., and Van Schaak, M., 1994, Integrated reservoir characterization--beyond tomography, SPE-28385, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 229-234. Later published in 1995: Geophysics, v. 60, no. 2, March-April, p. 354-364.

Lo, T-W., and Bermawi, A., 1994, Reservoir characterization with sequential Gaussian

simulation constrained by diffraction tomography, DP2.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 273-276.

Lou, M., and Crampin, S., 1992, Guided-wave propagation between boreholes: The Leading Edge, v. 11, no. 7, p. 34-37.

Lynn, H.B., Simon, K.M., Layman, M., Schneider, R., Bates, C.R., and Jones, M., 1995, Use of anisotropy in P-wave and S-wave data for fracture characterization in a naturally fractured gas reservoir: The Leading Edge, v. 14, no. 8, p. 887-893.

Mari, J.L., Coppens, F., Blondin, E., and Wicquart, E., 1995, Slowness and delay in acoustic logging, paper L, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Mari, J.-L., Coppens, F., Gavin, P., and Wicquart, E., 1995, Full waveform acoustic data processing: Editions Technip, 136 p.

Mathisen, M.E., Cunningham, P., Shaw, J., Vasiliou, A.A., Justice, J.H., and Guinzy, N.J., 1995, Crosswell seismic radial survey tomograms and the 3-D interpretation of a heavy oil steamflood: Geophysics, v. 60, no. 6, p. 651-659.

Maver, K.G., 1995, Porosity evaluation of seismically-resolved Zechstein carbonate layers, Logumkloster-1 well, Denmark: Journal of Petroleum Geology, v. 18, no. 3, p. 329-344.

Mavko, G., Mukerji, T., and Godfrey, N., 1995, Predicting stress-induced velocity anisotropy in rocks: Geophysics, v. 60, no. 4, p. 1081-1087.

McCann, C., 1994, Estimating the permeability of reservoir rocks from P-wave velocity and quality factor [abs.], P172, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Mendoza-Amuchastegui, J.A., and Ramirez-Cruz, L.C., 1994, Reconstruction of petrophysical images using cross-well travelttime tomography, SPE-28674, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 61-70.

Menpes, R.J., and Hillis, R.R., 1995, Quantification of Tertiary exhumation from sonic velocity data, Celtic Sea/southwestern approaches, in Buchanan, J.G., and Buchanan, P.G., eds., Basin inversion: Geological Society [London] Special Publication No. 88, p. 191-207.

Michelena, R.J., Ata, E., Sierra, J., 1994, Exploiting P-S converted waves--part 1, modeling the effects of anisotropy and heterogeneities, DP1.2, part 2, application to fractured reservoir, DP1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 236-243.

Minear, J., Birkchak, R., Robbins, C., Linyaev, E., Mackie, B., Young, D., and Malloy, R., 1995, Compressional slowness measurements while drilling, paper VV, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Moos, D., Hara, S., Phillips, C., Hooks, A., and Tagbor, K., 1995, Field test of acoustic logs for measuring porosity and oi saturation in a mature waterflood in the Wilmington field, California, SPE-29655, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 395-408.

Mufti, I.R., 1995, Pitfalls in crosshole seismic interpretation as a result of 3-D effects:

Geophysics, v. 60, no. 3, p. 821-833.

Murayama, R., 1994, From amplitude anomalies to physical properties--a quantitative approach: Oil and Gas Journal, v. 92, no. 43, October 24, p. 53-60.

Naville, C., Layotte, P.C., Pignard, G., and Guesnon, J., 1994, Well seismic--application of the TRAFOR MWD system to drill-bit seismic profiling [abs.], G045, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Pampuri, F., and Puricelli, R., 1993, The use of the complex trace attributes of digital sonic waveforms as a gas indicator in thin shaly-sand sequences in southern Italy, in Spencer, A.M., ed., Generation, accumulations and production of Europe's hydrocarbons III: Springer-Verlag, Berlin, European Association of Petroleum Geologists Special Publication No. 3, p. 259-265.

Parra, J.O., 1995, A feasibility study of high-resolution reverse VSP and interwell seismic methods for hydrocarbon reservoir characterization: The Log Analyst, v. 36, no 3, p. 64-81.

Parra, J.O., Zook, B.J., and Collier, H., 1994, Seismic-guided waves for reservoir continuity at the Gypsy test site, Oklahoma, PP4.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 755-759.

Patterson, D., 1994, Acoustic tools acquire data through casing: American Oil and Gas reporter, v. 37, no. 8, p. 84-87.

Peddy, C.P., Sengupta, M.K., and Fasnacht, T.L., 1995, AVO analysis in high-impedance sandstone reservoirs: The Leading Edge, v. 14, no. 8, p. 871-877-

Peng, C., 1994, Borehole effects on downhole seismic measurements: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Prussmann, J., 1994, Averaging sonic and impedance logs at variable intervals, BG3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 82-85.

Ramamoorthy, R., Murphy, W.F., and Coll, C., 1995, Total porosity estimation in shaly sands from shear modulus, paper H, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Ramos, A.C.B., Davis, T.L., Anderson, J.E., and Benson, R.D., 1994, AVO analysis and modeling applied to fracture detection in coalbed methane reservoirs, Cedar Hill field, San Juan Basin, New Mexico, DP1.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 244-247.

Rector, J.W., III, 1995, Crosswell methods--where are we, where are we going?: Geophysics, v. 60, no. 6, p. 629-630.

Reif, L.T., and Kinsland, G.L., 1993, Analysis of the relationship between seismic amplitudes and gas content of the Miocene Amos Sandstone, Marry Ann field, offshore Alabama: Gulf Coast Association of Geological Societies Transactions, v. 43, p. 327-332.

Renlie, L., 1994, Multipole logging in a formation with stress-relief-induced anisotropy: Geophysics, v. 59, no 12, p. 1806-1812.

Renoux, P., and Etienne, C., 1992, 3-D seismic and well logging study of a west Siberian lowland oil and gas field--application to petrophysical characterization, in

Sheriff, R.E., ed., Reservoir geophysics: Society of Exploration Geophysicists, v. 259-280.

Rouillac, D., 1994, Cement evaluation logging handbook: Editions Technip, 176 p.

Schoenberg, M., and Sayers, C., 1993, Seismic anisotropy of fractured rocks, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1511-1515.

Skopec, R.A., and Ross, C.P., 1994, Amplitude-versus-offset interpretation, scaling factors, and other challenges associated with acoustic data integration, paper SCA-9417, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 183-196.

Tang, X.M., Reiter, E.C., and Burns, D.R., 1995, A dispersive-wave processing technique for estimating formation shear velocity from dipole and Stoneley waveforms: Geophysics, v. 60, no. 1, January-February, p. 19-28.

Thirion, N., Mars, J., Volant, P., Mari, J.L., 1994, Wavelet transform--application to acoustic logging: Revue de l'Institut Francais du Petrole, v. 49, no. 2, p. 149-163.

Thompson, M.D., McGinnis, L.D., Wilkey, P.L., and Fasnacht, T., 1995, Compressional wave character in gassy, near-surface sediments in southern Louisiana determined from variable frequency cross-well borehole logging and surface seismic measurements, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 579-590.

Verm, R., and Hilterman, F., 1995, Lithology color-coded seismic sections--the calibration of AVO crossplotting to rock properties: The Leading Edge, v. 14, no. 6, p. 847-853.

Vo-Thanh, D., 1995, Influence of fluid chemistry on shear-wave attenuation and velocity in sedimentary rocks: Geophysical Journal International, v. 121, no. 3, p. 737-749.

Winkler, K.W., 1994, Laboratory observations of azimuthal velocity variations caused by borehole stress concentrations, SL3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1133-1135.

Winkler, K., Plona, T., Hsu, C-J., Sinha, B.K., and Kostek, S., 1994, Effects of borehole stress concentrations on dipole anisotropy measurements, SL3.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1136-1138.

Wu, J., 1994, An algorithm based upon the Biot-Geertsma-Gassmann equations to generate compressibilities and seismic velocities for porous fluid-saturated rocks: Brigham Young University, Provo, Utah, unpublished MS thesis, 169 p. Similar paper published in 1995 as, Benson, A.K., and Wu, J., Using the Biot-Geertsma-Gassmann equations to estimate (a) porous rock compressibilities and (b) seismic velocities for porous, fluid-filled rocks, in Caliendo, J.A., ed., 31st annual symposium on engineering geology and geotechnical engineering, proceedings: Utah State University, p. 208-227.

Xu, S., and White, R.E., 1995, A new velocity model for clay-sand mixtures: Geophysical Prospecting, v. 43, p. 91-118.

Yun, X., 1992, Statistical characteristics of velocity distribution and linear pseudo-velocity logs, in Advances in China's earth science: Oriental Earth Science Series, v. 1,

p. 241-254.

Zizi, K., 1994, Dry rock model prediction to be used in Biot-Gassmann-Domenico equations for computing acoustic properties of a carbonate rock, PP7.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 814-817.

Return to Main Menu

VIII. Nuclear Logging, Geochemical Logging (Elemental Analysis)

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

Allen, D.F., Best D.L., Evans, M., and Holenka, J., 1990, The effect of wellbore condition on wireline and MWD neutron density logs, SPE-20563, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 345-356. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 235-246. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 194-200.

Ander, M.E., and Summers, T., 1994, The Deep Penetration Density Logging Tool, paper W, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 3 p.

Arthur, J.D., Thornhill, J., and Williams, T.M., 1991, Oxygen activation logging as a method of demonstrating external mechanical integrity on injection wells, in Summer meeting proceedings: Underground Injection Practices Council, p. 141-148.

Basin, Y.N., Martiyanov, I.A., and Petrosyan, L.G., 1995, Interpretation of pulsed neutron log: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 17 p.

Borsaru, M., Ceravolo, C., and Tchen, T., 1995, The application of the low activity borehole logging tool to the iron ore mining industry: Nuclear Geophysics, v. 9, no. 1, p. 55-62.

Bristow, J.F., Dove, R.E., Broglia, C., Hobart, M.A., Chabernaud, T.J., Tivy, J., 1994, Data report--geochemical logging results from Vanuatu, Sites 829, 830, 831, and 833, chapter 36, in Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 625-643.

Bristow, J.F., Lofts, J.C., Harvey, P.K., and Lovell, M.A., 1994, Reservoir characterisation using nuclear geochemical logs, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 11 p.

Case, C.R., Flaum, C., Wraight, P.D., and DasGupta, T., 1995, Improved porosity estimation in invaded gas reservoirs using a pulsed neutron porosity device, paper X, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 9 p.

Cowan, P., and Locke, J., 1994, The accurate determination of vertical resolution of gamma-density tools, paper P, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 25 p.

Czubek, J.A., Drozdowicz, K., Gabanska, B., Igielski, A., Krynicka, E., and Woznicka, U., 1995, Sigma-Sa laboratory measurements for geological samples (by pulsed method), paper R, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Dodge, W.S., 1994, Quantifying HIRES nuclear tool resolution in thinly bedded reservoirs using time series analysis, SPE-28797, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 527-536.

Ellis, D., Howard, J., Flaum, C., McKeon, D., Scott, H., Serra, O., Simmons, G., 1988, Mineral logging parameters--Nuclear and acoustic: *The Technical Review*, v. 36, no. 1, p. 38-52. Reprinted in 1990, in Foster, N.H., and Beaumont, E.A., eds., *Formation evaluation I--log evaluation: AAPG Treatise of Petroleum Geology Reprint Series No. 16*, p. 460-474. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 52-66.

Galle, C., 1994, Neutron porosity logging and core porosity measurements in the Beauvoir granite, Massif Central Range, France: *Journal of Applied Geophysics*, v. 32, p. 125-137.

Galloway, R.B., 1995, Alpha-particle counting of a sediment core from Lac du Bouchet: *Nuclear Geophysics*, v. 9, no. 1, p. 63-71.

Gatto, H., and Draxler, J.K., 1993, Quantitative determination of elements and mineralogy in crystalline rocks [in French]: *Geologues*, no. 100-101, p. 74-78.

Goode, P.A., Sibbit, A.M., and Looi, S.Y., 1994, Reservoir saturation determination in the Eromanga Basin using carbon/oxygen logging, SPE-28798, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 537-551.

Haley, R.A., 1993, Pulsed neutron capture log interpretation in laminated formations--a dual exponential decay model, SPE-26126: Society of Petroleum Engineers, unsolicited paper, 34 p. Later published in 1995: *SPE Formation Evaluation*, v. 10, no. 1, p. 20-25.

Jennings, R.L., and Weber, G.A., 1995, Towards fast quantitative modelling of pulsed neutron logging tools, paper A, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Katahara, K.W., 1995, Gamma ray log response in shaly sands: *The Log Analyst*, v. 36, no. 4, p. 50-55.

Khaykovich, I.M., and Serykh, A.S., 1995, Spectrometric gamma logging in mineral deposits: *Nuclear Geophysics*, v. 9, no. 1, p. 35-43.

Krynicka, E., 1994, Statistical analysis of a correlation method for thermal neutron absorption cross-section determination: *Nuclear Geophysics*, v. 8, no. 5, p. 433-441.

Lloyd, T.A., 1994, Neutron porosity logging revisited: *Schlumberger Oilfield Review*, v. 6, no. 4, p. 4-8.

Lofts, J., Harvey, P., and Lovell, M., 1995, Reservoir characterization from downhole mineralogy: *Marine and Petroleum Geology*, v. 12, no. 3, p. 233-246.

Lofts, J.C., Harvey, P.K., and Lovell, M.A., 1995, The characterization of reservoir rocks using nuclear logging tools--evaluation of mineral transform techniques in the laboratory and log environments: *The Log Analyst*, v. 36, no. 2, p. p. 16-28.

Lovell, M.A., Harvey, P., and Lofts, J., 1993, Geochemical logging, in 3rd international congress expanded abstracts: *Brazilian Geophysical Society*, Rio de Janeiro, v. 2, p.

964-968.

Mathews, M., Hahn, K., Thompson, J., Gakeken, L., and Madigan, W., 1994, Subsurface radionuclide investigation of a nuclear test: *Journal of Applied Geophysics*, v. 32, p. 279-291.

Muttoni, A., and Cannatelli, D., 1994, Integration of production log and oxygen activation techniques aimed at the diagnosis of water production problems, SPE-27598, in European production operations conference and exhibition proceedings: Society of Petroleum Engineers, p. 81-92. Also published in 1994: *Journal of Petroleum Technology*, v. 890-898.

Olgaard, P.L., 1991, A model for the pulsed-neutron borehole tools, in 1st Lerkendal petroleum engineering workshop proceedings: Norwegian Institute of Technology, Trondheim, p. 229-239.

Pinault, J.-L., Daudu, F., Defoix, D., Vachelle, L., and Ducros, J.-B., 1993, Instantaneous neutron activation in shot holes [in French]: *Geologues*, no. 100-101, p. 25-32.

Pratson, E.L., Broglia, C., Pezard, P., and Harvey, P.K.H., 1995, Data report-- geochemical logging results from the eastern equatorial Pacific--Hole 504B, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 339-346.

Roscoe, B., Grau, J., Minh, C.C., and Freeman, D., 1995, Non-conventional applications of through-tubing carbon-oxygen logging tools, paper QQ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Schnorr, D.R., 1995, Optimizing water injection profiles with oxygen activation logging, SPE-29517, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 683-691.

Thakur, A., Arnold, J.R., and Schweitzer, J.S., 1995, Application of continuum analysis to borehole gamma-ray spectra obtained from the German Continental Deep Drilling Project: *Nuclear Geophysics*, v. 9, no. 1, p. 19-33.

Wyatt, D.F., Jr., Jacobsen, L.A., and Fox, P., 1994, Enhanced carbon-oxygen log interpretation using supplemental log curves, SPE-28758, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 165-172.

Yu, K.N., Young, C.M., Stokes, M.J., and Guan, Z.J., 1995, Determination of sedimentation rates in eastern sea areas of Hong Kong with gamma-ray spectrometry: *Nuclear Geophysics*, v. 9, no. 1, p. 73-81.

Zalen, T.A., Henshaw, P.C., Abels, H.P., II, Owens, B.K., Guo, D.S., Salaita, G.N., and Mikulich, W., 1995, Pulsed neutron spectroscopy logs add value to steam flood management process by monitoring oil saturation in Kern River field, California, SPE-29650, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 347-358.

Zemel, B., 1995, *Tracers in the oil field*: Elsevier Science, Amsterdam, *Developments in Petroleum Science* No. 43, 487 p.

Zemel, B., 1995, Measurements and applications, chapter 2, in *Tracers in the oil field*: Elsevier Science, Amsterdam, *Developments in Petroleum Science* No. 43, p. 39-87.

Zemel, B., 1995, Downhole tracers, chapter 7, in Tracers in the oil field: Elsevier Science, Amsterdam, Developments in Petroleum Science No. 43, p. 293-369.
Zemel, B., 1995, Unconventional waterflood tracing, chapter 5, in Tracers in the oil field: Elsevier Science, Amsterdam, Developments in Petroleum Science No. 43, p. 191-242.

Return to Main Menu

IX. Shaly Sands

(See also II. General Log Interpretation, IV. Electromagnetic Logging)

Berg, C.R., 1995, A simple, effective-medium model for water saturation in porous rocks: Geophysics, v. 60, no. 4, p. 1070-1080.

Bilinski, P.W., McGee, D.T., Pfeiffer, D.S., and Shew, R.D., 1995, Reservoir characterization of the "S" sand, Auger field, Garden Banks 426, 427, 470, and 471, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 75-93.

Clemenceau, G.R., 1995, Ram/Powell field--Viosca Knoll block 912, deepwater Gulf of Mexico, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 95-129.

de Lima, O.A.L., and Dalcin, C.L.R., 1995, Application of a new shaly sand model for interpreting resistivity and dielectric log measurements: The Log Analyst, v. 36, no. 2, p. 29-41.

Dodge, W.S., 1994, Quantifying HIREs nuclear tool resolution in thinly bedded reservoirs using time series analysis, SPE-28797, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 527-536.

Frass, M., Coll, C., Gamero, H., and Bryant, I., 1995, Characterization of thinly-bedded reservoirs--a new approach in a sparse logged area, paper DDD, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 7 p.

Garrouch, A.A., and Lababidi, H.M.S., 1995, An inverted petrophysical model for shale sands: In Situ, v. 19, no. 2, p. 125-153.

Hagiwara, T., 1993, Induction log analysis of thinly laminated sand/shale formation, SPE-25361: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 86-90.

Hardage, B.A., Levey, R.A., Pendleton, V., Simmons, J., and Edson, R., 1994, A 3-D seismic case history evaluating fluviially deposited thin-bed reservoirs in a gas-producing property: Geophysics, v. 59, no 11, p. 1650-1665.

Hurst, A., and Milodowski, T., 1994, Characterisation of clays in sandstones--thorium content and spectral log data, paper S, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 16 p.

Hurst, A., and Nadeau, P., 1994, Estimation of water saturation from clay microporosity data, SPE-28850, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 451-458.

Hurst, A., and Nadeau, P., 1994, A little clay - volumes of problems, paper A, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 21 p.

Katahara, K.W., 1995, Gamma ray log response in shaly sands: *The Log Analyst*, v. 36, no. 4, p. 50-55.

Mwenifumbo, C.J., and Pawlowicz, J.G., 1990, Use of spectral gamma for clay mineralogy, chapter 6, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110*, 38 p.

Saha, S., Drager, L., and Asquith, G.B., 1994, Simulating the Archie parameters--computer program and example from the Permian strata of west Texas: *Computers and Geosciences*, v. 20, no. 1, p. 41-45.

Saner, S., Cagatay, M.N., and Al Fossail, K., 1994, Shaliness effect on the log-derived Archie cementation factor--study of a Saudi Arabian sandstone reservoir: *The Log Analyst*, v. 35, no. 6, p. 16-27.

Sneider, R.M., King, H.R., Stolper, K.K., Kulha, J.T., 1995, Impact of Archie "m" on evaluating conventional and low resistivity pay [abs.], in 1995 AAPG annual convention official program, v. 4, Houston: AAPG, p. 90A. Text and figures of poster are available from BK Geo Services, 11991 Cochise Circle, Conifer, CO 80433.

Strathouse, E.C., 1995, Whole core of middle Pleistocene pay zones in Garden Banks block 171, Gulf of Mexico, in *Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20*, p. 131-147.

Warrilow, I.M., Ibrahim, R., Chin, H.T., and Forsyth, D., 1995, Application of resistivity inversion software to thin-bed evaluation, SPE-29263, in *SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers*, p. 123-138.

Worthington, P., 1994, Verification of water-saturation algorithms through dual-salinity desaturations, paper B, in *16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter*, 29 p.

Xu, S., and White, R.E., 1995, A new velocity model for clay-sand mixtures: *Geophysical Prospecting*, v. 43, p. 91-118.

[Return to Main Menu](#)

X. Borehole Gravimetry

Farnan, R.A., Piggin, R.H., and Black, A.J., 1994, Use of deep density borehole gravimeter to establish fluid saturation changes in a North Sea reservoir [abs.], P021, in *56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists*, 2 p. Also published in 1994 as, *Deep density borehole gravimeter measurements of fluid saturations in a North Sea reservoir compared to fluid saturations measured with resistivity logs*, paper V, in *16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter*, 2 p.

van der Harst, L., 1994, *Borehole gravimeter data acquisition and technology evaluation, final report: Gas Research Institute Report 94/0210*, 590 p.

[Return to Main Menu](#)

XI. Permeability and Determination of Permeability From Logs

(See also IV. Electromagnetic Logging, VII. Acoustic Logging, IX. Shaly Sands, 15.

Fracture Detection)

Ahmed, U., Crary, S.F., and Coates, G.R., 1989, Permeability estimation; the various sources and their interrelationship, SPE-19604, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 649-662. Later published in 1990 as, The interrelationship between various permeability measurements, paper I, in International well logging symposium transactions: Society of Professional Well Log Analysts, Beijing Chapter, 21 p. Later published in 1991: Journal of Petroleum Technology, v. 43, no. 5, p. 578-587. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 118-127.

Akbar, N., and Kim, J.J., 1994, Permeability extraction--a sonic log inversion, DP3.8, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 311-314.

Ayan, C., Colley, N., Cowanb, G., Ezekwe, E., Wannell, M., Goode, P., Halford, F., Joseph, J., Mongini, A., Obondoko, G., and Pop, J., 1994, Measuring permeability anisotropy--the latest approach: Schlumberger Oilfield Review, v. 6, no. 4, p. 24-35.

Best, M.E., and Katsube, T.J., 1995, Shale permeability and its significance in hydrocarbon exploration: The Leading Edge, v. 14, no. 3, p. 165-170.

Boebe, M., 1994, Rock Permeability determination by using a minipermeameter [in German]: Erdoel Erdgas Kohle, v. 110, no. 2, p. 58-61.

Cade, C.A., Evans, I.J., and Bryant, S.L., 1994, Analysis of permeability controls--a new approach: Clay Minerals, v. 29, p. 491-501

Chawathe, A., and Sharma, M.P., 1991, Effects of temperature on the permeability of porous media, in Eaton, R.R., Kaviany, M., Sharma, M.P., Vafai, K., and Udell, K.S., eds., Multiphase transport in porous media--1991: The American Society of Mechanical Engineers, FED, v. 122, p. 117-123.

Corbett, P.W.M., and Jensen, J.L., 1993, Quantification of variability in laminated sediments--a role for the probe permeameter in improved reservoir characterization, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 433-442.

Curwen, D.W., and Molaro, C., 1995, Permeability from magnetic resonance imaging logs, paper GG, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

de Lima, O.A.L., 1994, Hydraulic conductivity of shaly sands, SL4.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1159-1162.

Dull, D.W., 1994, Geostatistical method to improve permeability estimates--application to the Mabee field, Andrews and Martin Counties, Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 23-33.

Dyke, C.G., Wu, B., and Milton-Taylor, D., 1992, Advances in characterising natural fracture permeability from mud log data, SPE-25022, in European petroleum conference proceedings, v. 2: Society of Petroleum Engineers, 63-73. Later published in 1995: SPE Formation Evaluation, v. 10, no. 3, p. 160-166.

Greder, H.N., Mus, E.A., Veillerette, A.M. and Pellerin, F.M., 1995, Derivation of a core permeability log and extrapolation to uncored intervals, paper KK, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Holditch, S.A., and Yao, C.Y., 1993, Estimating permeability in the Wilcox "G" Sandstone in the Lake Creek unit well no. 48 using data from logging measurements, topical report: Gas Research Institute Report GRI-93/0390, 71 p.

Hurst, A., and Goggin, D., 1995, Probe permeametry--an overview and bibliography: AAPG Bulletin, v. 79, no. 3, p. 463-473.

Jenner, R., and Baldwin, J., 1994, Application of an artificial neural network to obtain an improved permeability profile, paper M, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Jensen, J.L., Corbett, P.W.M., and Glasbey, C.A., 1994, On the interaction of geology, measurement, and statistical analysis of small-scale permeability measurements: Terra Nova, v. 6, no. 4, p. 397-403.

Knoll, M.D., Knight, R., and Brown, E., 1995, Can accurate estimates of permeability be obtained from measurements of the dielectric properties?, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 25-35.

Kubica, 12 p., 1995, Statistical tests of permeability estimates based on NMR measurements, paper VVV, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Lee, C-H., and Farmer, I., 1994, Permeability and depth in rock masses, chapter 4, in Fluid flow in discontinuous rocks: Chapman and Hill, London, p. 84-103.

Lee, C-H., and Farmer, I., 1994, Rock and rock mass permeability, chapter 1, in Fluid flow in discontinuous rocks: Chapman and Hill, London, p.1-37.

Lind, I., Nykjaer, O., Priisholm, S., and Springer, N., 1992, Permeability of stylolite-bearing chalk, SPE-26019: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1994: Journal of Petroleum Technology, v. 46, no. 11, p. 986-993.

Mathews, A.R., 1991, Estimating sandstone permeability using network models with pore size distributions: Texas A&M University, College Station, Texas, unpublished M.S. thesis, 118 p.

McCann, C., 1994, Estimating the permeability of reservoir rocks from P-wave velocity and quality factor [abs.], P172, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Mijnssen, F.C.J., Weber, K.J., Rozendal, S., and Kool, H., 1992, The effect of horizontal shales on vertical permeability in clastic reservoir rocks, in Spencer, A.M., ed., Generation, accumulation and production of Europe's hydrocarbons II: Springer-Verlag,, Berlin, European Association of Petroleum Geologists Special Publication No. 2, p. 279-289.

Mirza, N.A., 1992, Geophysical modelling of sediment permeability: Wales, University, unpublished Ph.D. thesis, 202 p.

Molnar, D.L., Aminian, K., and Ameri, S., 1994, The use of well log data for estimating

permeability in a heterogeneous reservoir, SPE-29175, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 167-180.

Pu, Z., 1993, Permeability estimation from log-derived porosity via classical and fuzzy regression and cokriging: University of Alabama, Tuscaloosa, unpublished MS thesis, 146 p.

Schlueter, E.M., Zimmerman, R.W., Cook, N.G.W., and Witherspoon, P.A., 1994, Perimeter-area power-law relationship of pores in sedimentary rocks and implications for permeability, DP4.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 315-318.

Straley, C., Morriss, C.E., Kenyon, W.E., and Howard, J.J., 1991, NMR in partially saturated rocks: laboratory insights on free fluid index and comparison with borehole logs, paper CC, in 32nd annual logging symposium transactions: Society of Professional Well Log Analysts, 25 p. Later published in 1994: *The Log Analyst*, v. 36, no. 1, p. 40-56.

Swanson, B.F., 1979, A simple correlation between permeabilities and mercury capillary pressures, SPE-8234: Society of Petroleum Engineers, presented at 54th annual technical conference and exhibition, preprint. Later published in 1981: *Journal of Petroleum Technology*, v. 33, no. 12, p. 2498-2504. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 138-144.

Thompson, A.H., Katz, A.J., and Raschke, R.A., 1987, Estimation of absolute permeability from capillary pressure measurements, SPE-16794, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. ? Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 145-151.

Ti, G., Ogbe, D.O., Munly, W., and Hatzignatiou, D.G., 1993, The use of flow units as a tool for reservoir description--a case study, SPE-26919, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 293-306. Later published in 1995: *SPE Formation Evaluation*, v. 10, no. 2, p. 122-128.

Timur, A., 1968, An investigation of permeability, porosity, and residual water saturation relationships for sandstone reservoirs, paper J, in 9th annual well logging symposium transactions: Society of Professional Well Log Analysts, 18 p. Later published in 1968: *The Log Analyst*, v. 9, no. 4, July-August, p. 8-17. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 128-137.

van den Bosch, R., Fulop, A., and Pistre, V., 1995, Permeability prediction from well logs--a case study in German Rotliegend sandstones, paper NN, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Wiener, J., Rogers, J., and Moll, B., 1993, Predicting permeability from wireline logs using a back-propagation neural network, in Conference on artificial intelligence in petroleum exploration and production, proceedings: ? Later published in 1995: *Petroleum Engineer International*, v. 68, no. 5, p. 18-19, 23-24.

Worthington, P., 1995, Estimation of intergranular permeability from well logs: *Dialog* [quarterly newsletter of the London Petrophysical Society], v. 3, no. 3, p. 7-10.

Yang, Y.S., Thompson, C.J., and McCarthy, J.F., 1994, The generation of grid block permeabilities from core data, SPE-28753, in SPE Asia Pacific oil and gas conference

proceedings: Society of Petroleum Engineers, p. 127-134.

Zhao, X., 1994, Effects of heterogeneities on fluid flow and borehole permeability measurements: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Return to Main Menu

XII. Borehole Imaging, Downhole Video, Nearwell and Crosswell Imaging and Tomography

(See also IV. Electromagnetic Logging, VII. Acoustic Logging, 6. Dipmeter Applications, 15. Fracture Detection)

Allen, T.T., Ward, S.L., Chavers, R.D., Robertson, T.N., and Schultz, P.K., 1993, Diagnosing production problems with downhole video logging at Prudhoe Bay, SPE-26043, in Western regional meeting proceedings : Society of Petroleum Engineers, p. 149-158. Later published in 1994, in European production operations conference and exhibition proceedings: Society of Petroleum Engineers, p. 7-16. Later published in 1994, as, Ward, S.L., Allen, T.T., Chavers, R.D., Robertson, T.N., Schultz, P.K.: Journal of Petroleum Technology, v. 46, no. 11, p. 973-978.

Bashore, W.M., Langan, R.T., Tucker, K.E., and Griffith, P.J., 1995, Geostatistical integration of crosswell data for carbonate reservoir modeling, McElroy field, Texas, in Stoudt, E.L., and Harris, P.M., eds., Hydrocarbon reservoir characterization--geologic framework and flow unit modeling: SEPM [Society for Sedimentary Geology] Short Course Notes No. 34, p. 199-225.

Bennecke, W., 1994, The identification of basalt flow features from borehole television logs, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 107-120.

Blevins, D.M., Jr., and Fairborn, J.W., 1995, An application of crosswell tomography using a hydrophone receiver array to monitor steam migration in an unconsolidate, heavy-oil sandstone, West Coalinga field, California, SPE-29651, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 359-367.

Butler, D.B., and Knight, R.J., 1995, The effect of steam quality on the electrical behavior of steam-flooded sands--a laboratory study: Geophysics, v. 60, no. 4, p. 998-1006.

Chabernaud, T.J., 1994, High-resolution electrical imaging in the New Hebrides Island arc--structural analysis and stress studies, chapter 34, in Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 591-606.

Chardac, J-L., and El-Sayed, H., 1995, Applications of a new multi-resistivity and imaging tool in the Middle East, SPE-29838, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 589-596.

Cooper, P., Arnaud, H.M., and Flood, P.G., 1995, Formation Microscanner logging responses to lithology in guyot carbonate platforms and their implications--sites 865 and 866, chapter 21, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 329-372.

Dangerfield, J., Knight, I., and Farrell, H., 1992, Characterization of faulting and fracturing in Ekofisk field from seismic, core, and log data, in Larsen, R.M., Brekke, H., Larsen, B.T., and Talleraas, E., eds., Structural and tectonic modelling and its application to petroleum geology: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication No. 1, p. 397-407.

Eubanks, D., 1994, Application of borehole imaging in geologic studies, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 111-118.

Fischer, J.A., Fischer, J.J., and Bullwinkel, R.J., 1994, Results of a downhole Formation Microscanner study in a Juro-Triassic-aged sedimentary deposit (Passaic Formation), in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 359-370.

Gawthorpe, R.L., Collier, R.E.L., Alexander, J., Bridge, J.S., and Leeder, M.R., 1993, Ground penetrating radar--application to sandbody geometry and heterogeneity studies, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 421-432.

Harris, J.M., Nolen-Hoeksema, R.C., Langan, R.T., van Schaack, M., Lazaratos, S.K., and Rector, J.W., III, 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, part 1--summary and interpretation: Geophysics, v. 60, no. 3, p. 667-681.

Harvey, P.K.H., Pezard, P., Iturrino, G.J., Boldreel, L.O., and Lovell, M.A., 1995, The sheeted dike complex in hole 504B--observations from the integration of core and log data, chapter 26, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 305-311.

Hayles, J.G., Stevens, K.M., Serzu, M.H., and Lodha, G.S., 1992, Developments in the mini-charts system and field trial results in measuring excavation damage in granite, in 4th international symposium on borehole geophysics for minerals, geotechnical and groundwater applications, proceedings: Society of Professional Well Log Analysts, Minerals and Geotechnical Logging Society, Chapter-at-Large, p. 267-306. Later published in 1995: The Log Analyst, v. 36, no. 3, p. 12-37.

Hayman, A.J., Parent, P., Rouault, G., Zurquiyah, S., Verges, P., Liang, K., Stanke, F.E., and Herve, 12 p., 1995, Developments in corrosion logging using ultrasonic imaging, paper W, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hollub, V.A., 1993, Results of camera surveys at Rock Creek, paper 9329, in 1993 international coalbed methane symposium proceedings, v. 2: University of Alabama, Birmingham, p. 659-665.

Jalinoos, F., Olson, L.D., and Aouad, M.F., 1995, Ultrasonic crosshole and crossmedium tomography for the detection of defects in structural concrete, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 45-52.

Kimura, M., Kanezaki, Y., and Saito, H., 1994, Development of a borehole radar system and its field experiments for the base of crosshole tomography, EM3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 414-417.

Krammer, A., Menger, S., Chabernaud, T., and Fuchs, K., 1994, Borehole televiewer data analysis from the New Hebrides island arc--the state of stress at hole 829A and 831B, in Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 565-576.

Krammer, A., Pezard, P., Harvey, P.K.H., and Fuchs, K., 1995, Borehole televiewer data analysis of hole 504B from legs 137 and 140, chapter 25, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 293-304.

Lazaratos, S.K., Langan, R., Harris, J.M., and Marion, B.P., 1994, Shear-wave crosswell reflection imaging in west Texas, DP3.2, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 289-293.

Lee, D.S., Stevenson, V.M., Johnston, P.F., and Mullen, C.E., 1995, Time-lapse crosswell seismic tomography to characterize flow structure in the reservoir during thermal stimulation: Geophysics, v. 60, no. 6, p. 660-666.

Lines, L., Tan, H., Trietel, S., Beck, J., Chambers, R., Eager, J., Savage, C., Queen, J., Rizer, W., Buller, P., Cox, D., Ballard, J., Kokkoros, G., Sinton, J., Track, A., Guerendel, P., Harris, J., Lazaratos, S., and Van Schaak, M., 1994, Integrated reservoir characterization--beyond tomography, SPE-28385, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 229-234. Later published in 1995: Geophysics, v. 60, no. 2, March-April, p. 354-364.

Link, C.A., 1993, Crosshole seismic analysis for reservoir characterization and lithology identification: University of Houston, Texas, unpublished Ph.D. dissertation, 231 p.

Link, C.A., McDonald, J.A., Ebrom, D.A., and Zhou, H-W., 1993, Characterization of lithology using crosshole methods: Exploration Geophysics, v. 24, p. 645-654.

Lo, T.-H., Howlett, D.L., and Hoyer, S.A., 1994, High resolution cross-well reflection imaging and its application in west Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 181-183.

Lou, M., and Crampin, S., 1992, Guided-wave propagation between boreholes: The Leading Edge, v. 11, no. 7, p. 34-37.

Lucas, P., 1993, Reservoir characterisation using imaging logs--a future trend in reservoir development?, in Advances in reservoir technology proceedings: The Petroleum Science and Technology Institute, London, 12 p.

Maddox, S., Gibling, G.R., and Dahl, J., 1995, Downhole video services enhance conformance technology, SPE-30134, in European formation damage conference proceedings: Society of Petroleum Engineers, p. 535-549.

Mathis, B., Haller, D., Ganem, H., and Standon, E., 1995, Orientation and calibration of

core and borehole image data, paper JJJ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Mathisen, M.E., Cunningham, P., Shaw, J., Vasiliou, A.A., Justice, J.H., and Guinzy, N.J., 1995, Crosswell seismic radial survey tomograms and the 3-D interpretation of a heavy oil steamflood: *Geophysics*, v. 60, no. 6, p. 651-659.

Mathisen, M.E., Vasiliou, A.A., Cunningham, P., Shaw, J., Justice, J.H., and Guinzy, N.J., 1995, Time-lapse crosswell seismic tomogram interpretation--implications for heavy oil reservoir characterization, thermal recovery process monitoring, and tomographic imaging technology: *Geophysics*, v. 60, no. 6, p. 631-650.

Mendoza-Amuchastegui, J.A., and Ramirez-Cruz, L.C., 1994, Reconstruction of petrophysical images using cross-well travelttime tomography, SPE-28674, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 61-70.

Montemagno, C.D., and Gray, W.G., 1995, Photoluminescent volumetric imaging--a technique for the exploration of multiphase flow and transport in porous media: *Geophysical Research Letters*, v. 22, no. 4, p. 425-428.

Mufti, I.R., 1995, Pitfalls in crosshole seismic interpretation as a result of 3-D effects: *Geophysics*, v. 60, no. 3, p. 821-833.

Narayan, S., and Dusseault, M.B., 1995, Electrical resistance tomography for monitoring shallow enhanced recovery processes, SPE-30259, in International heavy oil symposium proceedings: Society of Petroleum Engineers, 183-194.

Nolen-Hoeksema, R.C., Wang, Z., Harris, J.M., Langan, R.T., 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, par 5--core analysis: *Geophysics*, v. 60, no. 3, p. 712-726.

Olsen, J.E., Kristensen, R., and Taylor, R.W., 1995, Case histories in the Europe/Africa area demonstrate improved capabilities of fiber-optic video camera technology, SPE-29300, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 421-432.

Ortenzi, A., and Fiorani, M., 1993, Petrographic applications of image analysis, in Spencer, A.M., ed., *Generation, accumulations and production of Europe's hydrocarbons III*: Springer-Verlag, Berlin, European Association of Petroleum Geologists Special Publication No. 3, p. 369-375.

Parra, J.O., 1995, A feasibility study of high-resolution reverse VSP and interwell seismic methods for hydrocarbon reservoir characterization: *The Log Analyst*, v. 36, no 3, p. 64-81.

Parra, J.O., Zook, B.J., and Collier, H., 1994, Seismic-guided waves for reservoir continuity at the Gypsy test site, Oklahoma, PP4.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 755-759.

Peng, C., 1994, Borehole effects on downhole seismic measurements: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Peters, C.A., Schultz, P.K., and Cobb, C.C., 1994, Downhole video system for harshest environment: *Sea Technology*, v. 35, no. 7, p. 12-18, 21.

Peters, L., Daniels, J.J., and Young, J.D., 1994, Ground penetrating radar as a subsurface environmental sensing tool: *Proceedings of the IEEE*, v. 82, no. 12, p. 1802-

1822.

Rector, J.W., III, 1995, Crosswell methods--where are we, where are we going?: Geophysics, v. 60, no. 6, p. 629-630.

Roca-Ramisa, L., Mendoza, J., and Sanchez-Galindo, M.A., 1994, Evaluation of fracture distribution and continuity in carbonate reservoirs using wellbore imaging tools, SPE-28676, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 81-96.

Roestenburg, J.W., 1994, Carbonate characterization and classification from in-situ wellbore images, paper IPA94-1-1-115, in 23rd annual convention proceedings, v. 1: Indonesia Petroleum Association, Jakarta, p. 181-188.

Rutherford, S., Parchman, M., Turpening, W., Chon Y.-T., and Kahn, T., 1995, Connectivity mapping while drilling improves reservoir analysis: Oil and Gas Journal, v. 93, no. 27, p. 55-59.

Salimullah, A.R.M., and Stow, D.A.V., 1995, Ichnofacies recognition in turbidites/hemiturbidites using enhanced FMS images--examples from ODP Leg 129: The Log Analyst, v. 36, no. 4, p. 38-49.

Seiler, D., 1995, Borehole visualization in 3-D, paper UUU, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Spies, B.R., and Ellis, R.G., 1995, Cross-borehole resistivity tomography of a pilot-scale, in-situ vitrification test: Geophysics, v. 60, no. 3, p. 886-898.

Spies, B.R., and Habashy, T.M., 1995, Sensitivity analysis of crosswell electromagnetics: Geophysics, v. 60, no. 3, p. 834-845.

Starcher, M.G., Murphy, J.R., Alexander, P.D., and Whittaker, J.L., 1995, Video camera log used for water isolation in the Main Body "B" pool, Elk Hills field, Kern County, California--water and oil, SPE-29654, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 383-394.

Starkey, J., and Samantaray, A.K., 1994, A microcomputer-based system for quantitative petrographic analysis: Computers and Geosciences, v. 20, no. 9, p. 1285-1296.

Sullivan, K.B., and Schepel, K.J., 1995, Borehole image logs--applications in fractured and thinly bedded reservoirs, paper T, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Thompson, M.D., McGinnis, L.D., Wilkey, P.L., and Fasnacht, T., 1995, Compressional wave character in gassy, near-surface sediments in southern Louisiana determined from variable frequency cross-well borehole logging and surface seismic measurements, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 579-590.

Torres-Verdin, C., and Habashy, T.M., 1995, Cross-well electromagnetic tomography, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1400-1405.

Uswak, G., and McLafferty, N., 1993, Cement imaging through ultrasonics, paper 93-302, in CADE/CAODC Spring drilling conference proceedings: Canadian Association of Drilling Engineers, Calgary, Alberta, 12 p.

Williams, C., Jackson, P., Lovell, M., Harvey, P., and Reece, G., 1994, Numerical simulation of downhole electrical conductance imaging, paper O, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 10 p.

Wilt, M., 1992, Monitoring of thermal enhanced oil recovery processes with electromagnetic methods: Lawrence Livermore National Laboratory Report No. UCRL-JC-111579, 15 p.

Wilt, M., 1994, Reservoir characterization and process monitoring with EM methods: U.S. Department of Energy Report DOE/BC/94000147, 10 p.

Wilt, M., Morrison, H.F., Becker, A., and Tseng, H-W., Lee, K., Torres-Verdin, C., and Alumbaugh, D., 1995, Crosshole electromagnetic tomography--a new technology for oil field characterization: *The Leading Edge*, v. 14, no. 3, p. 173-177.

Wilt, M., Schenkel, C., Torres-Verdin, C., Lee, K., and Tseng, H., 1994, Crosshole EM for oil field characterization and EOR monitoring--field examples, WS2.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1676-1679.

Wilt, M.J., Alumbaugh, D.L., Morrison, H.F., Becker, A., Kee, K.H., and Deszcz-Pan, M., 1995, Crosswell electromagnetic tomography--system design considerations and field results: *Geophysics*, v. 60, no. 3, p. 871-885.

Wright, D.L., Grover, T.P., Labson, V.F., Pellerin, L., Ellefsen, K.J., and Bradley, J.A., 1995, Tomography between wells, a transient dielectric logging tool, and the very early time electromagnetic (VETEM) system, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 501-510.

Yamamoto, T., Nye, T., Kuru, M., 1994, Porosity, permeability, shear strength--crosswell tomography below and iron foundry: *Geophysics*, v. 59, no. 10, p. 1530-1541.

Zhou, H.-W., Ebrom, D.A., McDonald, J.A., and Link, C., 1993, Characterization of lithology using crosshole methods, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1526-1531.

Return to Main Menu

XIII. Temperature Logging, Determination of Static BHT, Applications of BHT Data, Heat-flow and Geothermics (See also 21. Geothermal Logging)

Ascenio, F., Garcia, A., Rivera, J., and Arellano, V., 1994, Estimation of undisturbed formation temperatures under spherical-radial heat flow conditions: *Geothermics*, v. 23, no. 4, p. 317-326.

Bachu, S., Ramon, J.C., Villegas, M.E., and Underschultz, J.R., 1995, Geothermal regime and thermal history of the Llanos Basin, Columbia: *AAPG Bulletin*, v. 79, no. 1, p. 116-129.

Balling, N., and Decker, E.R., editors, 1995, Heat flow and thermal regimes of continental lithosphere: *Tectonophysics*, v. 244, no. 1-3.

Bodri, B., 1995, Hydrological disturbances of the conductive heat flow in the upper crust--problems of correcting measured heat flow data: *Geothermics*, v. 24, no. 2, p. 237-251.

Burkhardt, H., Honarmand, H., and Pribnow, D., 1995, Test measurements with a new thermal conductivity borehole tool: *Tectonophysics*, v. 244, no. 1-3, p. 161-165.

Chapman, D.S., 1993, Repeat temperature measurements in borehole GC-1, northwestern Utah--towards isolating a climate-change signal in borehole temperature profiles: *Geophysical Research Letters*, v. 20, no. 8, p. 1891-1894.

Chisholm, T.J., 1990, Climate change inferred from borehole temperatures; western Utah: University of Utah, Salt Lake City, 94 p.

Clauser, C., and Mareschal, J.-C., 1995, Ground temperature history in central Europe from borehole temperature data: *Geophysical Journal International*, v. 121, p. 805-817.

Davis, E.E., and Becker, K., 1994, Formation temperatures and pressures in a sedimented rift hydrothermal system--10 months of CORK observations, holes 857D and 858G, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 139: Ocean Drilling Program, Texas A&M University, College Station, p. 649-666.

Davis, E.E., and Wang, K., 1994, Present and past temperatures of sediments at Site 857, Middle Valley, northern Juan de Fuca ridge, chapter 35, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 139: Ocean Drilling Program, Texas A&M University, College Station, p. 565-596.

Davis, E.R., Zhu, D., and Hill, A.D., 1995, Interpretation of fracture height from temperature logs--the effect of wellbore/fracture separation, SPE-29588, in *SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers*, p. 415-426. Also published in 1995, in *SPE production operations symposium proceedings: Society of Petroleum Engineers*, p. 981-992..

Decker, E.R., 1995, Thermal regimes of the southern Rocky Mountains and Wyoming basin in Colorado and Wyoming in the United States: *Tectonophysics*, v. 244, no. 1-3, p. 75-84.

Deming, D., 1994, Estimation of the thermal conductivity anisotropy of rock with application to the determination of terrestrial heat flow: *Journal of Geophysical Research*, v. 99, no., B11, p. 22,087-22,091.

Forster, A., and Merriam, D.F., 1993, Geothermal field interpretation in south-central Kansas for parts of the Nemaha Anticline and flanking Cherokee and Sedgwick basins: *Basin Research*, v. 5, p. 213-234.

Gable, R., Morin, R., Becker, K., and Pezard, P., 1995, Heat flow in the upper part of the oceanic crust--synthesis of in-situ temperature measurements in hole 504B, chapter 28, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 321-324.

Gable, R., and Vasseur, G., 1991, Geothermal studies on three GPF sites [in French]: *Bulletin de la Societe Geologique de France*, v. 162, no. 5, p. 907-912.

Genter, A., and Traineau, H., 1993, Deep geothermics in the Soultz granites [in French]: *Geologues*, no. 100-101, p. 67-73.

Grosswig, S., Hurtig, E., and Kuhn, K., in press, Fiber optic temperature sensing--a new tool for temperature measurements in boreholes: *Geophysics*, v.

Harris, R.N., and Chapman, D.S., 1995, Climate change on the Colorado Plateau of eastern Utah inferred from borehole temperatures: *Journal of Geophysical Research*, v. 100, no. B4, p. 6367-6381.

Hurtig, E., Grosswig, S., Jobmann, M., Kuhn, K., and Marschall, P., 1994, Fibre-optic temperature measurements in shallow boreholes--experimental application for fluid logging: *Geothermics*, v. 23, no. 4, p. 355-364.

Kutasov, I.M., 1995, Empirical equation estimates geothermal gradients: *Oil and Gas Journal*, v. 93, no. 1, January 2, p. 48, 50.

Lachenbruch, A.H., Sass, J.H., Clow, G.D., and Wldon, R., 1995, Heat flow at Cajon Pass, California, revisited: *Journal of Geophysical Research*, v. B100, no. 2, February 10, p. 2005-2012.

Lachenbruch, A.H., Sass, J.H., Marshall, B.V., and Moses, T.H., Jr., 1982, Permafrost, heat flow and the geothermal regime at Prudhoe Bay, Alaska: *Journal of Geophysical Research*, v. 87, no. B11, November 10, p. 9301-9336.

Luo, M., Wood, J.R., and Cathles, L.M., 1995, Prediction of thermal conductivity in reservoir rocks using fabric theory: *Journal of Applied Geophysics*, v. 32, p. 321-334.

Merlo, A., Maglione, R., Guillot, F., and Bodin, D., 1994, Temperature field measurements and computer program predictions under cementing operation conditions, SPE-28822, in *European petroleum conference proceedings: Society of Petroleum Engineers*, p. 155-164.

Middleton, M.F., 1994, Determination of matrix thermal conductivity from dry drill cuttings: *AAPG Bulletin*, v. 78, no. 11, p. 1790-1799.

Petersen, K., and Lerche, I., 1995, Thermal anomalies around evolving salt sheets, OTC-7639, in *27th annual offshore technology conference proceedings*, v. 1: *Society of Petroleum Engineers*, p. 33-43.

Pfister, M., and Rybach, L., 1995, High-resolution digital temperature logging in areas with significant convective heat transfer: *Geothermics*, v. 24, no. 1, p. 95-100.

Praditnan, S., 1990, Calculation of heat flow of the Tertiary basins in the Gulf of Thailand, in *3rd CCOP heat flow workshop proceedings: Coordinating Committee for Offshore Prospecting Report CCOP/TP-21*, p. 99-106.

Pribnow, D., Williams, C.F., Burkhardt, H., 1993, Well log-derived estimates of thermal conductivity in crystalline rocks penetrated by the 4-km deep KTB Vorbohrung: *Geophysical Research Letters*, v. 20, no. 12, p. 1155-1158.

Pribnow, D.F.C., and Sass, J.H., 1995, Determination of thermal conductivity for deep boreholes: *Journal of Geophysical Research*, v. 100, no. B6, p. 9981-9994.

Rollin, K.E., 1995, A simple heat-flow quality function and appraisal of heat-flow measurements and heat-flow estimates from the UK geothermal catalogue: *Tectonophysics*, v. 244, no. 1-3, p. 185-196.

Safanda, J., 1994, Effects of topography and climatic changes on the temperature in borehole GFU-1, Prague: *Tectonophysics*, v. 239, p. 187-197.

Sass, J.H., Lachenbruch, A.H., Galanis, S.P., Jr., Morgan, P., Priest, S.S., Moses, T.H., Jr., and Munroe, R.J., 1994, Thermal regime of the southern Basin and Range Province--part 1, heat flow data from Arizona and the Mojave Desert of California and Nevada: *Journal of Geophysical Research*, v. 99, no. B11, p. 22,093-22,119.

- Shen, P.Y., Pollack, H.N., Huang, S., and Wang, K., 1995, Effects of subsurface heterogeneity on the inference of climate change from borehole temperature data--model studies and field examples from Canada: *Journal of Geophysical Research*, v. 100, no. B4, p. 6385-6396.
- Stule, P., 1995, Return to thermal equilibrium of an intermittently drilled hole--theory and experiment: *Tectonophysics*, v. 241, p. 35-45.
- Vasseur, G., Brigaud, F., and Demongodin, L., 1995, Thermal conductivity estimation in sedimentary basins: *Tectonophysics*, v. 244, no. 1-3, p. 167-174.
- Villinger, H.W., Langseth, M.G., Groschel-Becker, H.M., and Fisher, A.T., 1994, Estimating in-situ thermal conductivity from log data, chapter 32, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 139: Ocean Drilling Program, Texas A&M University, College Station, p. 545-552.
- Wang, K., Lewis, T.J., Belton, D.S., and Shen, P.-Y., 1994, Differences in recent ground surface warming in eastern and western Canada; evidence from borehole temperatures: *Geophysical Research Letters*, v. 21, no. 24, p. 2689-2692.
- Wheildon, J., Morgan, P., Williamson, K.H., Evans, T.R., and Swanberg, C.A., 1994, Heat flow in the Kenya rift zone: *Tectonophysics*, v. 236, p. 131-149.
- Wilhelm, H., Baumann, C., and Zoth, G., 1995, Some results of temperature measurements in the KTB main borehole, Germany: *Geothermics*, v. 24, no. 1, p. 101-113.
- Williams, C.F., Galanis, S.P., Jr., Grubb, F.V., and Moses, T.H., Jr., 1995, The thermal regime of Santa Maria province, California: *U.S. Geological Survey Bulletin* 1995-F, 25 p.

[Return to Main Menu](#)

XIV. Conditions and Special Situations Affecting Tool Response

(See also II. General Log Interpretation)

NONE

XV. Crossplot Techniques and Applications

(See also II. General Log Interpretation)

Chandu, S.N., and Rao, C.S., 1992, Identification mineralogy and gas using crossplots in Bombay High offshore area: *Indian Journal of Earth Sciences*, v. 19, no. 2-3, p. 114-127.

[Return to Main Menu](#)

XVI. Computer and Programmable Calculator Programs for Log Analysis

Christie, D.M., and Langmuir, C.H., 1994, Automated XY plots from Microsoft Excel: *Computers and Geosciences*, v. 20, no 1, p. 47-52.

Kork, J.O., 1994, JKPLOT version 2.00--a device-independent plotting system written in QuickBASIC for an IBM PC: *Computers and Geosciences*, v. 20, no. 1, p. 41-45.

Selner, G.I., and Taylor, R.B., 1992, System 8: U.S. Geological Survey Open-File Report OF 92-0372A, B, 83 p. + 1 diskette. [Programs to assist workers in the earth

sciences in using geodetic or Cartesian XYZ data from row column (GSPV85) fields; GSPDC, contours and grids interpolated from triangulated network; PCS, graphic sections; GSPUV, univariant statistics and histograms; GSPROB, probability diagrams; GSPXY, regression statistics and XY plots; GSPTD, ternary diagrams; and GSPV85 post-plots, for IBM PC compatible computers.]

Zhou, S., 1994, A program to model the initial shape and extent of borehole breakout: Computers and Geosciences, v. 20, no. 7/8, p. 1143-1160.

XVII. Schlumberger International Well Evaluation Conferences

Delsol, D., ed., 1995, Well Evaluation Conference Algeria 1995 [English and French]: Schlumberger, Document No. M-090295, variously paginated. Also published in CD-ROM format.

Return to Main Menu

XVIII. Reprint Volumes

Society of Petroleum Engineers, 1994, Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, ? p.

Society of Petroleum Engineers, 1995, Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, ? p.

Return to Main Menu

XIX. Bibliographies

Prensky, S.E., 1995, Bibliography of well-log applications; Cumulative edition, through September 30, 1994: U.S. Geological Survey Open-File Report OF95-0064, 794 p. Available as digital files in DOS WordPerfect (OF95-0064C) and Macintosh Microsoft Word.(OF95-006B) and via the internet using anonymous FTP at the following site <ftp://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-95-0064/>.

Prensky, S.E., 1995, Bibliography of well-log applications, annual update--October 1, 1993 to September 30, 1994: The Log Analyst, v. 36, no. 1, p. 57-116.

Prensky, S.E., and Anderson, B., 1994, SPWLA computer index, paper CC, in 35th annual logging symposium transactions: Society of Professional Well Log Analysts, 7 p. Later published in 1994: The Log Analyst, v. 35, no. 6, p. 60-67.

Return to Main Menu

XX. Well-Log-Response Charts

NONE

PART B: APPLICATIONS

1. GENERAL GEOLOGICAL AND GEOTECHNICAL APPLICATIONS

Altunbay, M., Barr, D.C., Kennaird, A.F., and Manning, D.K., 1994, Numerical geology--predicting depositional and diagenetic facies from wireline logs using core data, SPE-28794, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 507-515.

Antonelli, R., Zambrano, R., Mares, S., Zboril, A., 1995, Integration of hydrogeological, geoelectrical and logging methods for aquifer contamination assessment, under

unfavorable conditions (Veneto region, northeast Italy), in Kovar, K., and Krasny, J., eds., Groundwater quality--remediation and protection (GQ'95): International Association of Hydrological Sciences [IAHS] Publication No. 225, p. 29-37.

Armstrong, P., Ireson, D., Chmela, B., Dodds, K., Esmeroy, C., Miller, D., Hornby, B., Sayers, C., Schoenberg, M., Leaney, S., Lynn, H., 1994, The promise of elastic anisotropy: Schlumberger Oilfield Review, v. 6, no. 4, p. 36-47.

Bachu, S., 1995, Synthesis and model of formation water flow, Alberta Basin, Canada: AAPG Bulletin, v. 79, no. 8, p. 1159-1178.

Bachu, S., Cuthiell, D., and Kramers, J., 1990, Effects of core scale heterogeneities on fluid flow in a clastic reservoir, in Agterberg, F.P., and Bonham-Carter, G.F., eds., Statistical applications in the earth sciences: Geological Survey of Canada Paper 89-9, p. 517-523.

Bachu, S., Ramon, J.C., Villegas, M.E., and Underschultz, J.R., 1995, Geothermal regime and thermal history of the Llanos Basin, Columbia: AAPG Bulletin, v. 79, no. 1, p. 116-129.

Balling, N., and Decker, E.R., editors, 1995, Heat flow and thermal regimes of continental lithosphere: Tectonophysics, v. 244, no. 1-3.

Barber, T., Anderson, B., and Mowat, G., 1992, Using induction tools to identify magnetic formations and to determine relative magnetic susceptibility and dielectric constant, paper C, in 33rd annual logging symposium transactions: Society of Professional Well Log Analysts, 22 p. Later published in 1995: The Log Analyst, v. 36, no. 4, p. 16-26.

Baron, J.-P., Cariou, J., Unvois, J.-P., and Venet, V., 1993, Logging at the labs of the (ministry of) roads [in French]: Geologues, no. 100-101, p. 15-24.

Barton, C.A., and Zoback, M.D., 1994, Stress perturbations associated with active faults penetrated by boreholes; possible evidence for near-complete stress drop and a new technique for stress magnitude measurement: Journal of Geophysical Research, v. B99, no. 5, May 10, p. 9373-9390.

Becquart, D., and Cornet, J.L., 1990, The response of original geophysical methods to specific problems in mining, hydrogeology, and geotechnical studies [in French]: Geologues, n. 92, p. 49-55.

Benson, A.K., 1994, Environmental geophysics--locating and evaluating subsurface geology, geologic hazards, groundwater contamination, etc., in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 285-303.

Benson, A.K., 1994, Effects of shale and contaminants on (V_s/V_p) ratios in transversely-isotropic geology, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 305-319.

Benson, R.C., and Yuhr, L., 1995, Geophysical methods for environmental assessment, in Geoenvironment 2000, characterization, containment, remediation, and performance in environmental geotechnics, v. 1: American Society of Civil Engineers, New York, p. 57-76.

Bigelow, E.L., and Howell, E.P., 1995, Practical analysis of formation strength properties in both consolidated and unconsolidated reservoirs, paper TTT, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Bloch, S., and Helmold, K.P., 1995, Approaches to predicting reservoir quality in sandstones: AAPG Bulletin, v. 79, no. 1, p. 97-115.

Bodri, B., 1995, Hydrological disturbances of the conductive heat flow in the upper crust--problems of correcting measured heat flow data: Geothermics, v. 24, no. 2, p. 237-251.

Boldreel, L.O., Harvey, P.K.H., Pezard, P., and Iturrino, G.J., 1995, Lithostratigraphy, fracturing, and fluid flow in the upper oceanic crust, chapter 27, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 313-319.

Bowers, G.L., 1994, Pore pressure estimation from velocity data--accounting for overpressure mechanisms besides undercompaction, IADC/SPE-27488, in 1994 IADC/SPE drilling conference proceedings: Society of Petroleum Engineering, p. 515-530. Later published in 1995: SPE Drilling Completion, v. 10, no. 2, p. 89-95.

Bram, K., Draxler, J., Hirschmann, G., Zoth, G., Hiron, S., and Kuhr, M., 1995, The KTB borehole--Germany's superdeep telescope into the Earth's crust: Schlumberger Oilfield Review, v. 7, no. 1, p. 4-22

Bristow, J.F., Dove, R.E., Broglia, C., Hobart, M.A., Chabernaud, T.J., Tivy, J., 1994, Data report--geochemical logging results from Vanuatu, Sites 829, 830, 831, and 833, chapter 36, in Greene, H.G., Collot, J.-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 625-643.

Brumley, J., Kuhlman, R., Abass, H., Christiansen, C., and Nydahl, L., 1994, In-situ stress field determination and formation characterization--offshore Qatar case history, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 905-919.

Caillet, G., Deboaisne, R., Mathis, B., and Roux, C., 1994, The present-day stress regime in some deep structures of quadrant 25, offshore Norway: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 2, p. 381-390.

Chabernaud, T.J., 1994, High-resolution electrical imaging in the New Hebrides Island arc--structural analysis and stress studies, chapter 34, in Greene, H.G., Collot, J.-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 591-606.

Chapman, D.S., 1993, Repeat temperature measurements in borehole GC-1, northwestern Utah--towards isolating a climate-change signal in borehole temperature profiles: Geophysical Research Letters, v. 20, no. 8, p. 1891-1894.

Chisholm, T.J., 1990, Climate change inferred from borehole temperatures; western Utah: University of Utah, Salt Lake City, 94 p.

Clauser, C., and Mareschal, J.-C., 1995, Ground temperature history in central Europe from borehole temperature data: Geophysical Journal International, v. 121, p. 805-817.

Cooper, P., 1995, Milankovitch cycles from Fourier analysis of logs from Site 865 and 866, chapter 20, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 317-327.

Cooper, P., Arnaud, H.M., and Flood, P.G., 1995, Formation Microscanner logging responses to lithology in guyot carbonate platforms and their implications--sites 865 and 866, chapter 21, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 329-372.

Corbett, P.W.M., Stromberg, S.G., Brenchley, P.J., and Geehan, G., 1994, Laminaset geometries in the fine grained shallow marine sequences--core data from the Rannoch Formation (North Sea) and outcrop data from the Kennilworth Member (Utah, USA) and the Bencliff Grit (Dorset, UK): *Sedimentology*, v. 41, p. 729-745.

Cowgill, S.M., Meredith, P.G., Murrell, A.F., Brereton, N.R., 1994, Heterogeneous stress orientations in the North Sea basin, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam*, p. 963-970.

Daev, D.S., Zinchenko, V.S., Talalov, A.D., Andrieux, P., Camerlynck, C., Rakotondrasoa, G., 1993, Dielectric permittivity logging applied to hydrology and civil engineering [in French]: *Geologues*, no. 100-101, p. 11-14.

Dart, R.L., and Swolfs, H.S., 1992, Subparallel faults and horizontal-stress orientations--an evaluation of in-situ stresses inferred from elliptical wellbore enlargements, in Larsen, R.M., Brekke, H., Larsen, B.T., and Talleraas, E., eds., *Structural and tectonic modelling and its application to petroleum geology: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication No. 1*, p. 519-529.

Davis, E.E., and Becker, K., 1994, Formation temperatures and pressures in a sedimented rift hydrothermal system--10 months of CORK observations, holes 857D and 858G, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 139: Ocean Drilling Program, Texas A&M University, College Station*, p. 649-666.

Davis, E.E., and Wang, K., 1994, Present and past temperatures of sediments at Site 857, Middle Valley, northern Juan de Fuca ridge, chapter 35, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 139: Ocean Drilling Program, Texas A&M University, College Station*, p. 565-596.

Decker, E.R., 1995, Thermal regimes of the southern Rocky Mountains and Wyoming basin in Colorado and Wyoming in the United States: *Tectonophysics*, v. 244, no. 1-3, p. 75-84.

Delsol, D., ed., 1995, *Well Evaluation Conference Algeria 1995 [English and French]: Schlumberger, Document No. M-090295, variously paginated. Also published in CD-ROM format.*

Deming, D., 1994, Estimation of the thermal conductivity anisotropy of rock with application to the determination of terrestrial heat flow: *Journal of Geophysical Research*, v. 99, no., B11, p. 22,087-22,091.

Dvorkin, J., Yin, H., and Knight, R., 1994, Seismic detection of residual contaminants,

NS2.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 584-586.

Ellis, D.V., Perchonok, R.A., Scott, H.D., and Stoller, C., 1995, Adapting wireline logging tools for environmental logging applications, paper C, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Evans, D.G., Anderson, W.P., Jr., and Tsang, C-F., 1992, Borehole fluid experiments near salt contamination sites in Maine, in Focus conference on eastern regional ground water issues proceedings: Ground Water Management, Book 13, p. 797-807.

Farquhar, R.A., Somerville, J.M., and Smart, B.G.D., 1994, Porosity as a geomechanical indicator--an application of core and log data and rock mechanics, SPE-28853, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 481-489.

Fertl, W., Chilingarian, G.V., and Donaldson, E.C., 1995, Surveillance technology to detect and monitor compaction and subsidence effects, appendix D, in Chilingarian, G.V., Donaldson, E.C., and Yen, T.F., eds., Subsidence due to fluid withdrawal: Elsevier Science, Amsterdam, 439-451.

Forsans, T.M., and Schmitt, L., 1994, Capillary forces--the neglected factor in shale instability studies?, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 71-84.

Gable, R., Morin, R., Becker, K., and Pezard, P., 1995, Heat flow in the upper part of the oceanic crust--synthesis of in-situ temperature measurements in hole 504B, chapter 28, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 321-324.

Gable, R., Millon, R., and Tabbagh, A., 1992, Magnetic logging in the Sancerre-Couy borehole [in French], in Chantraine, J., ed, Geologie profonde de la France; forage scientifique de Sancerre-Couy; synthese des etudes 1986-1992: Geologie de la France, no. 3-4, p. 171-182.

Gable, R., and Vasseur, G., 1991, Geothermal studies on three GPF sites [in French]: Bulletin de la Societe Geologique de France, v. 162, no. 5, p. 907-912.

Gaither, B.E., 1994, Some considerations in the application of wireline logging to environmental investigations: Gulf Coast Association of Geological Societies Transactions, v. 44, p. 237-244.

Galloway, R.B., 1995, Alpha-particle counting of a sediment core from Lac du Bouchet: Nuclear Geophysics, v. 9, no. 1, p. 63-71.

Gurevich, A.E., and Chilingar, G.V., 1995, Abnormal pressures in Azerbaijan--a brief critical review and recommendations: Journal of Petroleum Science and Engineering, v. 13, p. 125-135.

Hall, P.L., 1994, Physical and chemical aspects of development of overpressuring in sedimentary environments: Clay Minerals, v. 29, p. 425-437.

Hansen, K.S., Prats, M., and Chan, C.K., 1993, Finite-element modeling of depletion-induced reservoir compaction and surface subsidence in the South Belridge oil field, California, SPE-26074, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 437-452. Later published in 1995 as, Modeling of reservoir

compaction and surface subsidence at South Belridge: SPE Production and Facilities, v. 10, no. 3, p. 134-143.

Har, B.S., Flemings, P.B., and Deshpande, A., 1995, Porosity and pressure--role of compaction disequilibrium in the development of overpressures in a Gulf Coast Pleistocene basin: *Geology*, v. 23, no. 1, p. 45-48.

Harris, R.N., and Chapman, D.S., 1995, Climate change on the Colorado Plateau of eastern Utah inferred from borehole temperatures: *Journal of Geophysical Research*, v. 100, no. B4, p. 6367-6381.

Hart, B.S., Flemings, P.B., and Deshpande, A., 1995, Porosity and pressure--role of compaction disequilibrium in the development of geopressures in a Gulf coast Pleistocene basin: *Geology*, v. 23, no 1, p. 45-48.

Harvey, P.K.H., Pezard, P., Iturrino, G.J., Boldreel, L.O., and Lovell, M.A., 1995, The sheeted dike complex in hole 504B--observations from the integration of core and log data, chapter 26, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 305-311.

Hill, R.E., Peterson, R.E., Warpinski, N.R., Lorenz, J.C., Teufel, L.W., and Aslakson, J.K., 1994, Techniques for determining subsurface stress direction and assessing hydraulic fracture azimuth, SPE-29192, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 305-320.

Hillis, R.R., 1993, Quantifying erosion in sedimentary basins from sonic velocities in shales and sandstones: *Exploration Geophysics*, v. 24, p. 561-566.

Hirlemann, G., and Jaillard, L., 1993, Paleogeography and logs [in French]: *Geologues*, no. 100-101, p. 55-58.

Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., 1990, Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, variously paginated.

Hoppie, B.W., Blum, and Shipboard Scientific Party, 1994, Natural gamma-ray measurements on ODP cores--introduction to procedures with examples from Leg 150, chapter 5, in Mountain, G.S., Miller, K.G., Blum P., et al., eds., *Proceedings of the Ocean Drilling Program, initial reports*, v. 150: Ocean Drilling Program, Texas A&M University, College Station, p. 51-59.

Imamura, S., 1994, Integrated interpretation of exploration data in geotechnical engineering--an approach using fuzzy theory, CT1.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 202-205.

Jalinoos, F., Olson, L.D., and Aouad, M.F., 1995, Ultrasonic crosshole and crossmedium tomography for the detection of defects in structural concrete, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 45-52.

Janot, P., Gauer, P., and Gross, E., 1988, Orientation of tectonic stress in western Europe from borehole breakouts [in French]: *Revue de l'Institut Francais du Petrole*, v. 43, no. 4, p. 517-521.

Kay, S.E., Dougherty, M.E., and Pelton, J.R., 1994, The relationship of seismic velocity

structure and surface fracture characteristics of basalt outcrops to rippability estimates, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 107-120.

Keys, W.S., Mwenifumbo, C.J., and Hulatt, E.W., 1990, Potentially applicable new tools, chapter 7, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 20 p.

Kopaska-Merkel., D.C., and Schmoker, J.W., 1994, Regional porosity evolution in the Smackover Formation of Alabama: Carbonates and Evaporites, v. 9, no. 1, p. 58-75.

Kramers, J., Yuan, L-P., Bachu, S., and Cuthiell, D., 1990, Reservoir characterization case study--sandy facies, in Bachu, S., ed., 5th Canadian/American conference on hydrogeology: National Water Well Association, Dublin, Ohio, [also Alberta Research Council Information Series 116] p. 72-86.

Krammer, A., Pezard, P., Harvey, P.K.H., and Fuchs, K., 1995, Borehole televiewer data analysis of hole 504B from legs 137 and 140, chapter 25, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 293-304.

Lachenbruch, A.H., Sass, J.H., Clow, G.D., and Wldon, R., 1995, Heat flow at Cajon Pass, California, revisited: Journal of Geophysical Research, v. B100, no. 2, February 10, p. 2005-2012.

Lackie, M.A., and Schmidt, P.W., 1993, Drill core orientation using paleomagnetism: Exploration Geophysics, v. 24, p. 609-614.

Lang, W.H., 1994, The determination of thermal maturity in potential source rocks using interval transit time/interval velocity: The Log Analyst, v. 35, no. 6, p. 47-59.

Lee, C-H., and Farmer, I., 1994, Rock and rock mass permeability, chapter 1, in Fluid flow in discontinuous rocks: Chapman and Hill, London, p.1-37.

Lee, C-H., and Farmer, I., 1994, Permeability and depth in rock masses, chapter 4, in Fluid flow in discontinuous rocks: Chapman and Hill, London, p. 84-103.

Lempp, C., Natau, O., Bayer, U., and Welte, D.H., 1994, The effect of temperature on rock mechanical properties and fracture mechanisms in source rocks--experimental results, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 147-154.

Lindholm, C.D., Bungum, H., Bratli, R.K., Dahl, N., Torudbakken, B., Aadnoy, B.S., and Atakan, K., 1995, Crustal stress in the northern North Sea as inferred from borehole breakouts and earthquake focal mechanisms: Terra Nova, v. 7, no. 1, p. 51-59.

Lofts, J., Harvey, P., and Lovell, M., 1995, Reservoir characterization from downhole mineralogy: Marine and Petroleum Geology, v. 12, no. 3, p. 233-246.

Lorenz, C., Lefavrais, A., Lorenz, J., Marchand, D., and Millon, R., 1991, Stratigraphical correlations of the Jurassic well loggings [sic] in the southern part of the Paris basin with the Sancerre-Couy borehole [in French]: Bulletin de la Societe Geologique de France, v. 162, no. 5, p. 907-912.

Lovell, M.A., Harvey, P., and Lofts, J., 1993, Geochemical logging, in 3rd international

congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 964-968.

Luo, M., Wood, J.R., and Cathles, L.M., 1995, Prediction of thermal conductivity in reservoir rocks using fabric theory: *Journal of Applied Geophysics*, v. 32, p. 321-334.

MacFarlane, P.A., Doveton, J.H., Feldman, H.R., Butler, J.J., Jr., Combes, J.M., and Collins, D.R., 1994, Aquifer/aquitard units of the Dakota aquifer system in Kansas-- methods of delineation and sedimentary architecture effects on ground-water flow and flow properties: *Journal of Sedimentary Research*, v. B64, no. 4, p. 464-480.

Mack, T.J., 1993, Detection of contaminant plumes by borehole geophysical logging: *Ground Water Monitoring Review*, v. 13, no. 1, p. 107-114.

Mallick, R.K., and Raju, S.V., 1995, Application of wireline logs in characterization and evaluation of generation potential of Paleocene-Lower Eocene source rocks in parts of Upper Assam Basin, India: *The Log Analyst*, v. 36, no. 3, p. 49-63

Mann, U., 1994, An integrated approach to the study of primary petroleum migration, in Parnell, J., ed., *Geofluids, origin, migration, and evolution of fluids in sedimentary basins*: Geological Society [London] Special Publication No. 78, p. 233-260.

Marsala, A.F., Ragazzini, G., Meazza, O., Brignoli, M., and Santarelli, F.J., 1994, Basin scale rock mechanics--logs and core measurements, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 105-112.

Mathews, M., Hahn, K., Thompson, J., Gakeken, L., and Madigan, W., 1994, Subsurface radionuclide investigation of a nuclear test: *Journal of Applied Geophysics*, v. 32, p. 279-291.

Melnyk, D.H., Smith, D.G., and Amiri-Garroussi, K., 1994, Filtering and frequency mapping as tools in subsurface cyclostratigraphy, with examples from the Wessex Basin, UK, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 35-46.

Menpes, R.J., and Hillis, R.R., 1995, Quantification of Tertiary exhumation from sonic velocity data, Celtic Sea/southwestern approaches, in Buchanan, J.G., and Buchanan, P.G., eds., *Basin inversion*: Geological Society [London] Special Publication No. 88, p. 191-207.

Merriam, D.F., Herzfeld, U.C., and Forster, A., 1993, Integration of geophysical data for basin analysis, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1025-1030.

Milkereit, B., Green, A., Wu, J., White, D., and Adam, E., 1994, Integrated seismic and borehole geophysical study of the Sudbury igneous complex: *Geophysical Research Letters*, v. 21, no. 10, p. 931-934.

Mobach, E., and Gussinklo, H.J., 1994, In-situ reservoir compaction monitoring in the Gronigen field, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 535-547

Montone, P., Amato, A., Chiarabba, C., Buonasorte, G., and Fiordelisi, A., 1995, Evidence of active extension in quaternary volcanoes of central Italy from breakout analysis and seismicity: *Geophysical Research Letters*, v. 22, no. 4, p. 1909-1912.

Morre, J.C., Shipley, T.H., Goldberg, D. and Shipboard Scientific Party, 1995, Abnormal

fluid pressures and fault-zone dilation in the Barbados accretionary prism; evidence from logging while drilling: *Geology*, v. 23, no. 7, p. 605-608.

Nauroy, J.F., Dubois, J.C., Meunier, J., Marsset, B., Puech, A., Lapierre, F., Kervadec, J.P., and Kuhn, H., 1995, Tests in offshore Monaco of new techniques for a better integration of geotechnical and seismic data, OTC-7375, in *Offshore technology conference proceedings*, v. 1: Society of Petroleum Engineers, p. 43-52

Nentwich, F.W., and Yole, R.W., 1994, Wireline log response, petrography and reservoir properties of cored intervals--Kugmallit sequence (Oligocene), Beaufort-Mackenzie Basin, Arctic Canada: *Bulletin of Canadian Petroleum Geology*, v. 42, no. 4, p. 432-448.

Nogi, Y., Tarduno, J.A., and Sager, W.W., 1995, Geomagnetic-field variations recorded within drill pipe at Site 865--implications for paleomagnetic studies, chapter 24, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 389-393

Nogi, Y., Tarduno, J.A., and Sager, W.W., 1995, Magnetization of seamount-derived sediments from Site 869 inferred from downhole magnetometer logs, chapter 22, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., *Proceedings of the Ocean Drilling Program, scientific results*, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 373-388.

Okko, O., and Tornqvist, J., 1995, Derivation of conventional geotechnical parameters from nuclear logging tools, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 829-833.

Pawlowicz, J.G., and Fenton, M.M., 1990, Detection of bedrock weakened by glacial deformation, chapter 5, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 44 p.

Pedersen, T., and Bjorlykke, K., 1994, Fluid flow in sedimentary basin--model of pore water flow in a vertical fracture: *Basin Research*, v. 6, no. 1, p. 1-16.

Pedler, W.H., Crowder, R.E., Seracuse, J.M., Myers, N.J., Daniel, J., and Haines, L., 1995, Vertical profiling of aquifer flow characteristics and water quality parameters using Hydrophysical logging, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 311-318.

Petersen, K., and Lerche, I., 1995, Thermal anomalies around evolving salt sheets, OTC-7639, in *27th annual offshore technology conference proceedings*, v. 1: Society of Petroleum Engineers, p. 33-43.

Pfister, M., and Rybach, L., 1995, High-resolution digital temperature logging in areas with significant convective heat transfer: *Geothermics*, v. 24, no. 1, p. 95-100.

Planke, S., 1994, Geophysical response of flood basalts from analysis of wireline logs; Ocean Drilling Program site 642, Voring volcanic margin: *Journal of Geophysical Research*, v. B99, no. 5, May 10, p. 9279-9296.

Plumb, R.A., 1994, Influence of composition and texture on the failure properties of

clastic rocks, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 13-20.

Pocachard, J., Thomas, T., Barthes, V., Pozzi, J.-P., and Pages, G., 1993, In-situ magnetostratigraphic measurements in oil wells [in French]: *Geologues*, no. 100-101, p. 79-83.

Pratson, E.L., Broglia, C., Pezard, P., and Harvey, P.K.H., 1995, Data report-- geochemical logging results from the eastern equatorial Pacific--Hole 504B, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas*, p. 339-346.

Pribnow, D.F.C., and Sass, J.H., 1995, Determination of thermal conductivity for deep boreholes: *Journal of Geophysical Research*, v. 100, no. B6, p. 9981-9994.

Pribnow, D., Williams, C.F., Burkhardt, H., 1993, Well log-derived estimates of thermal conductivity in crystalline rocks penetrated by the 4-km deep KTB Vorbohrung: *Geophysical Research Letters*, v. 20, no. 12, p. 1155-1158.

Prins, M., Smits, R.M.M., and Schutjens, P.M.T.M., 1995, Predicting compaction and subsidence for an immature gasbearing carbonate field, SPE-29273, in *SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers*, p. 195-202.

Roca R., L., and Singer, J., 1991, Predicting borehole stability from wireline logs, in 10th technical conference proceedings, part 1: *Society of Petroleum Engineers, Trinidad and Tobago Section*, p. 47-57.

Roperch, P., Barthes, V., Pocachard, J., Collot, J.-Y., and Chabernaud, T., 1994, Magnetic logging and in-situ magnetostratigraphy--a field test, chapter 33, in Greene, H.G., Collot, J.-Y., Tokking, L.B., et al., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station*, p. 577-589.

Saarenketo, T., 1995, The use of dielectric and electrical conductivity measurements and ground penetrating radar for frost susceptibility evaluations of subgrade soils, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society*, p. 73-85.

Salimullah, A.R.M., 1993, *Wireline sedimentology--resedimented volcanoclastites: Southampton University, England, unpublished Ph.D. thesis.*

Salimullah, A.R.M., and Stow, D.A.V., 1995, Ichnofacies recognition in turbidites/hemiturbidites using enhanced FMS images--examples from ODP Leg 129: *The Log Analyst*, v. 36, no. 4, p. 38-49.

Santarelli, F.J., 1994, Rock mechanics characterization of deep formations--a technico-economical overview, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam*, p. 3-12.

Sass, J.H., Lachenbruch, A.H., Galanis, S.P., Jr., Morgan, P., Priest, S.S., Moses, T.H., Jr., and Munroe, R.J., 1994, Thermal regime of the southern Basin and Range Province--part 1, heat flow data from Arizona and the Mojave Desert of California and Nevada: *Journal of Geophysical Research*, v. 99, no. B11, p. 22,093-22,119.

- Serebryakov, V.A., and Chilingar, G.V., 1995, Abnormal pressure regime in the former USSR petroleum basins: *Journal of Petroleum Science and Engineering*, v. 13, p. 65-74.
- Serebryakov, V.A., Chilingar, G.V., and Katz, S.A., 1995, Methods of estimating and predicting abnormal formation pressure: *Journal of Petroleum Science and Engineering*, v. 13, p. 113-123.
- Shen, P.Y., Pollack, H.N., Huang, S., and Wang, K., 1995, Effects of subsurface heterogeneity on the inference of climate change from borehole temperature data--model studies and field examples from Canada: *Journal of Geophysical Research*, v. 100, no. B4, p. 6385-6396.
- Spies, B.R., and Ellis, R.G., 1995, Cross-borehole resistivity tomography of a pilot-scale, in-situ vitrification test: *Geophysics*, v. 60, no. 3, p. 886-898.
- Tan, C.P., Willoughtby, D.R., Hillis, R.R., Zhou, S., Muhlhaus, H-B., and Aoki, T., 1994, Well-bore instability in the northwest shelf of Australia: *APEA [Australian Petroleum Exploration Association] Journal*, v. 34, part 1, p. 3-18.
- Ten Katge, W.G.H.Z., Sprenger, A., Steens, T.N.F., and Beets, C.J., 1994, Late Quaternary monsoonal variations in the western Arabian Sea based on cross-spectral analyses of geochemical and micropaleontological data (ODP Leg 117, core 728A), in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 127-143..
- Thakur, A., Arnold, J.R., and Schweitzer, J.S., 1995, Application of continuum analysis ;to borehole gamma-ray spectra obtained from the German Continental Deep Drilling Project: *Nuclear Geophysics*, v. 9, no. 1, p. 19-33.
- van Echelpoel, E., 1994, Identification of regular sedimentary cycles using Walsh spectral analysis with results from the Boom Clay Formation, Belgium, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 63-76..
- Vasseur, G., Brigaud, F., and Demongodin, L., 1995, Thermal conductivity estimation in sedimentary basins: *Tectonophysics*, v. 244, no. 1-3, p. 167-174.
- Wade, N.H., 1990, Geotechnical parameters, chapter 3, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 39 p.
- Wang, K., Lewis, T.J., Belton, D.S., and Shen, P.-Y., 1994, Differences in recent ground surface warming in eastern and western Canada; evidence from borehole temperatures: *Geophysical Research Letters*, v. 21, no. 24, p. 2689-2692.
- Warren, E.A., and Smalley, P.C., eds., 1994, *North Sea formation water atlas*: The Geological Society [London] Memoir No. 15, 208 p.
- Wensaas, L., Shaw, H.F., Gibbons, K., Aagaard, P., and Dypvik, H., 1994, Nature and causes of overpressuring in mudrocks of the Gullfaks area, North Sea: *Clay Minerals*, v. 29, p. 439-449.
- Werner, K.S., 1990, Direction of maximum horizontal compression in western Oregon determined by borehole breakouts: Oregon State University, Corvallis, unpublished MS

thesis, 159 p.

Wheildon, J., Morgan, P., Williamson, K.H., Evans, T.R., and Swanberg, C.A., 1994, Heat flow in the Kenya rift zone: *Tectonophysics*, v. 236, p. 131-149.

White, D.J., Milkereit, B., Wu, J.J., Salisbury, M.H., and Mwenifumbo, J., 1994, Seismic reflectivity of the Sudbury structure North Range from borehole logs: *Geophysical Research Letters*, v. 21, no. 10, May 15, p. 935-938.

Wilhelm, H., Baumann, C., and Zoth, G., 1995, Some results of temperature measurements in the KTB main borehole, Germany: *Geothermics*, v. 24, no. 1, p. 101-113.

Williams, C.F., Galanis, S.P., Jr., Grubb, F.V., and Moses, T.H., Jr., 1995, The thermal regime of Santa Maria province, California: *U.S. Geological Survey Bulletin* 1995-F, 25 p.

Withers, R., Eggers, D., Fox, T., and Crebs, T., 1994, A case study of integrated hydrocarbon exploration through basalt: *Geophysics*, v. 59, no 11, p. 1666-1679.

Wu, R-S., Xu, Z., and Li, X-P., 1994, Heterogeneity spectrum and scale-anisotropy in the upper crust revealed by the German Continental Deep-Drilling (KTB) holes: *Geophysical Research Letters*, v. 21, no. 10, p. 911-914.

Yale, D.P., Rodriguez, J.M., Mercer, T.B., and Blaisdell, D.W., 1994, In-situ stress orientation and the effects of local structure--Scott field, North Sea, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 945-953.

Yang, C-S., and Kouwe, W.F.P., 1995, Wireline log-cyclicity analysis as a tool for dating and correlating barren strata--an example from the Upper Rotliegend of The Netherlands, in Dunay, R.E., and Hailwood, E.A., eds, *Non-biostratigraphical methods of dating and correlation*: Geological Society [London] Special Publication No. 89, p. 237-259.

Yang, C.S., and Baumfalk, Y.A., Milankovitch cyclicity in the Upper Rotliegend Group of The Netherlands offshore, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*, : Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 47-61.

Yassir, N.A., and Bell, J.S., 1994, Relationships between pore pressure, stresses, and present-day geodynamics in the Scotian Shelf, offshore eastern Canada: *AAPG Bulletin*, v. 78, no. 12, p. 1863-1880.

Yu, K.N., Young, C.M., Stokes, M.J., and Guan, Z.J., 1995, Determination of sedimentation rates in eastern sea areas of Hong Kong with gamma-ray spectrometry: *Nuclear Geophysics*, v. 9, no. 1, p. 73-81.

Zech, R.S., and Keighin, C.W., 1993, Porosity and permeability data for the Point Lookout Sandstone from core holes 1HCMS and 2HCMS, northern San Juan Basin, La Plata County, Colorado: *U.S. Geological Survey Open-File Report OF 93-0306*, 180 p.

Zimmerle, W., 1995, Sedimentological interpretation of well logs, chapter 2, sedimentological investigations, in *Petrology sedimentology*: Ferinand Enke Publishers, Stuttgart, p. 71-107.

Zoback, M.D., and Peska, P., 1995, In-situ stress and rock strength in the BBRN/DOE Pathfinder well, south Eugene Island, Gulf of Mexico, SPE-29233: *Society of Petroleum*

Engineers, unsolicited manuscript. Later published in 1995: Journal of Petroleum Technology, v. 47, no. 7, p. 582-585.

[Return to Main Menu](#)

2. DETERMINATION OF FACIES AND DEPOSITIONAL ENVIRONMENT

Altunbay, M., Barr, D.C., Kennaird, A.F., and Manning, D.K., 1994, Numerical geology--predicting depositional and diagenetic facies from wireline logs using core data, SPE-28794, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 507-515.

Bucheb, J.A., and Evans, H.B., 1992, Some applications of principal component analysis to well-log data [in Portuguese]: Boletim de Geosciences da Petrobras, v. 6, no. 1/2, p. 5-16. Later published in 1994 as, Some applications of methods used in electrofacies identification: The Log Analyst, v. 35, no. 1, January-February, p. 14-26. Discussion and reply published in 1994: The Log Analyst, v. 35, no. 6, p. 12-15.

Cowan, G., 1993, Identification and significance of aeolian deposits within the dominantly fluvial Sherwood Sandstone Group of the East Irish Sea basin UK, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 231-245.

Pogacsas, G., Lakatos, L., Ujzaszi, K., Vakarc, G., Varkonyi, L., Varnai, P., and Revesz, I., 1988, Seismic facies, electrofacies and Neogene sequence chronology of the Pannonian Basin: Acta Geologica Hungarica, v. 31, no. 3-4, p. 175-207.

Prosser, D.J., and Maskall, R., 1993, Permeability variation within aeolian sandstone--a case study using core cut sub-parallel to slipface bedding, the Auk field, central North Sea, UK, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 377-397.

Wong, P.M., Gedeon, T.D., and Taggart, I.J., 1995, The use of fuzzy ARTMAP for lithofacies classification--a comparison study, paper U, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Yang, C-S., and Kouwe, W.F.P., 1995, Wireline log-cyclicity analysis as a tool for dating and correlating barren strata--an example from the Upper Rotliegend of The Netherlands, in Dunay, R.E., and Hailwood, E.A., eds, Non-biostratigraphical methods of dating and correlation: Geological Society [London] Special Publication No. 89, p. 237-259.

Zimmerle, W., 1995, Sedimentological interpretation of well logs, chapter 2, sedimentological investigations, in Petrology sedimentology: Ferdinand Enke Publishers, Stuttgart, p. 71-107.

[Return to Main Menu](#)

3. IDENTIFICATION OF DEPOSITIONAL ENVIRONMENTS BY SP AND GR PATTERNS; SEQUENCE STRATIGRAPHY

Matyas, V., 1995, Application of Kruskal multidimensional scaling (MDS) to rock type identification from well logs: The Log Analyst, v. 36, no. 1, p. 28-34.

Melnyk, D.H., Smith, D.G., and Amiri-Garroussi, K., 1994, Filtering and frequency mapping as tools in subsurface cyclostratigraphy, with examples from the Wessex

Basin, UK, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 35-46.

Mulholland, J.W., 1994, Sequence stratigraphic correlation of well-log cross sections: *The Mountain Geologist*, v. 31, no. 3, July, p. 65-75.

Pogacsas, G., Lakatos, L., Ujzaszi, K., Vakarcs, G., Varkonyi, L, Varnai, P., and Revesz, I., 1988, Seismic facies, electrofacies and Neogene sequence chronology of the Pannonian Basin: *Acta Geologica Hungarica*, v. 31, no. 3-4, p. 175-207.

van Echelpoel, E., 1994, Identification of regular sedimentary cycles using Walsh spectral analysis with results from the Boom Clay Formation, Belgium, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 63-76..

Yang, C.S., and Baumfalk, Y.A., Milankovitch cyclicity in the Upper Rotliegend Group of The Netherlands offshore, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*, : Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 47-61.

Yang, C-S., and Kouwe, W.F.P., 1995, Wireline log-cyclicity analysis as a tool for dating and correlating barren strata--an example from the Upper Rotliegend of The Netherlands, in Dunay, R.E., and Hailwood, E.A., eds, *Non-biostratigraphical methods of dating and correlation*: Geological Society [London] Special Publication No. 89, p. 237-259.

[Return to Main Menu](#)

4. DIPMETER APPLICATIONS

Faivre, O., and Catala, G., 1995, Dip estimation from azimuthal laterolog tools, paper CC, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Hirlemann, G., 1993, Direct and indirect dipmeter logging; comparison and knowledge of sylvanite levels in salt beds of the Congo coastal basin [in French]:

Langford, R.P., 1992, Use of dipmeters in stratigraphic and depositional interpretation of natural gas reservoirs of the Oligocene Vicksburg Formation--an example from McAllen Ranch field, Hidalgo County, Texas, of technology applications for infield reserve growth: Gas Research Institute Report GRI-91/261, 80 p. Later published in 1994: Texas Bureau of Economic Geology, Geological Circular 94-1, 39 p.

Lovell, J.R., Rosthal, R.A., Arceneaux, C.L., Jr., Young, R.A., and Buffington, L., 1995, Structural interpretation of resistivity-at-the-bit images, paper TT, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

[Return to Main Menu](#)

5. APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS

(See also 7. Well-Log Data Processing)

Chawathe, A., 1994, The application of Kohonen type self organization algorithm to formation evaluation, SPE-29179, in Eastern regional conference and exhibition

proceedings: Society of Petroleum Engineers, p. 213-223.

Chen, D.S., Fang, J.H., Kortright, M.E., and Chen, H.C., 1993, Novel approaches to the determination of Archie parameters, part I--simplex method, SPE-26287: Society of Petroleum Engineers, unsolicited paper, 18 p. Part II--fuzzy regression analysis, SPE-26288: Society of Petroleum Engineers, unsolicited paper, 22 p. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 39-52.

Garcia, G., 1991, Inversion of a lateral log using neural networks: Colorado School of Mines, Golden, 96 p.

Goncalves, C.A., Harvey, P.K., and Lovell, M.A., 1995, Application of a multilayer neural network and statistical techniques in formation characterisation, paper FF, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hall, J., and Scandella, L., 1995, Estimation of critical formation evaluation parameters using techniques of neurocomputing, paper PPP, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Imamura, S., 1994, Integrated interpretation of exploration data in geotechnical engineering--an approach using fuzzy theory, CT1.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 202-205.

Jenner, R., and Baldwin, J., 1994, Application of an artificial neural network to obtain an improved permeability profile, paper M, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Olea, R.A., 1994, Expert systems for automated correlation and interpretation of wireline logs: *Mathematical Geology*, v. 26, no. 18, p. 879-897.

Pu, Z., 1993, Permeability estimation from log-derived porosity via classical and fuzzy regression and cokriging: University of Alabama, Tuscaloosa, unpublished MS thesis, 146 p.

Soto B., R., and Soto T., C., 1995, An object oriented expert system to enhance log analysis of the Columbian Basins, SPE-30196, in Petroleum computer conference proceedings: Society of Petroleum Engineers, p. 153-158.

Wiener, J., Rogers, J., and Moll, B., 1993, Predicting permeability from wireline logs using a back-propagation neural network, in Conference on artificial intelligence in petroleum exploration and production, proceedings: ? Later published in 1995: *Petroleum Engineer International*, v. 68, no. 5, p. 18-19, 23-24.

Wong, P.M., Gedeon, T.D., and Taggart, I.J., 1995, The use of fuzzy ARTMAP for lithofacies classification--a comparison study, paper U, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Wong, P.M., Jian, F.X., and Taggart, I.J., 1995, A critical comparison of neural networks and discriminant analysis in lithofacies, porosity, and permeability predictions: *Journal of Petroleum Geology*, v. 18 no. 2, p. 191-206.

[Return to Main Menu](#)

6. WELL-LOG DATA PROCESSING

(Including Log Automated Correlation and Analysis)

- Berkowitz, B., and Farouq, S.M., 1994, An analysis of two automatic history-matching procedures for estimation of subsurface reservoir properties: *Israel Journal of Earth Sciences*, v. 43, p. 239-247.
- Bucheb, J.A., and Evans, H.B., 1992, Some applications of principal component analysis to well-log data [in Portuguese]: *Boletim de Geosciences da Petrobras*, v. 6, no. 1/2, p. 5-16. Later published in 1994 as, Some applications of methods used in electrofacies identification: *The Log Analyst*, v. 35, no. 1, January-February, p. 14-26. Discussion and reply published in 1994: *The Log Analyst*, v. 35, no. 6, p. 12-15.
- Coudert, L., Frappa, M., Arias, R., 1994, A statistical method for litho-facies identification: *Journal of Applied Geophysics*, v. 32, p. 257-267.
- Enikeyeva, F.K., Khamatdinov, R.T., Pantjukhin, V.A., Velizhanin, V.A., Yumatov, A.Y., and Zhuravlev, B.K., 1995, Computer modelling and log data processing for lithology and porosity determination: *Society of Professional Well Log Analysts*, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 12 p.
- Ingerman, V.G., 1995, Statistical integration of log data for lithology determination and formation evaluation: *The Log Analyst*, v. 36, no. 3, p. 38-48.
- Katz, S.A., Chilingarian, G.V., and Islam, M.R., 1995, Estimation of reservoir porosity and saturations using multiple sources of geophysical data: *Journal of Petroleum Science and Engineering*, v. 13, p. 103-111.
- Matyas, V., 1995, Application of Kruskal multidimensional scaling (MDS) to rock type identification from well logs: *The Log Analyst*, v. 36, no. 1, p. 28-34.
- Moline, G.R., and Bahr, J.M., 1995, Estimating spatial distributions of heterogeneous subsurface characteristics by regionalized classification of electrofacies: *Mathematical Geology*, v. 27, no. 1, p. 3-22.
- Olea, R.A., 1994, Expert systems for automated correlation and interpretation of wireline logs: *Mathematical Geology*, v. 26, no. 18, p. 879-897.
- Saha, S., Drager, L., and Asquith, G.B., 1994, Simulating the Archie parameters--computer program and example from the Permian strata of west Texas: *Computers and Geosciences*, v. 20, no. 1, p. 41-45.

[Return to Main Menu](#)

7. NATURAL GAMMA-RAY SPECTROMETRY

- Hurst, A., and Milodowski, T., 1994, Characterisation of clays in sandstones--thorium content and spectral log data, paper S, in 16th European formation evaluation symposium transactions: *Society of Professional Well Log Analysts, Aberdeen Chapter*, 16 p.
- Mwenifumbo, C.J., and Pawlowicz, J.G., 1990, Use of spectral gamma for clay mineralogy, chapter 6, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 38 p.

[Return to Main Menu](#)

8. ORGANIC CARBON DETERMINATION AND SOURCE ROCK EVALUATION

Lang, W.H., 1994, The determination of thermal maturity in potential source rocks using interval transit time/interval velocity: *The Log Analyst*, v. 35, no. 6, p. 47-59.

Lin, J.L., and Salisch, H.A., 1993, Determination of potential yield and volatile hydrocarbons from well logs in potential source rocks, SPE-27626: Society of Petroleum Engineers, unsolicited manuscript, 28 p. Later published in 1994: APEA [Australian Petroleum Exploration Association] *Journal*, v. 34, part 1, p. 307-319.

Mallick, R.K., and Raju, S.V., 1995, Application of wireline logs in characterization and evaluation of generation potential of Paleocene-Lower Eocene source rocks in parts of Upper Assam Basin, India: *The Log Analyst*, v. 36, no. 3, p. 49-63

Vernik, L., Liu, X., and Nur, A., 1994, Effect of kerogen on velocity anisotropy in source rocks, DP4.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 323-326.

Wilhelms, A., Carpentier, B., and Huc, A.Y., 1994, New methods to detect tar mats in petroleum reservoirs: *Journal of Petroleum Science and Engineering*, v. 12, p. 147-155.

[Return to Main Menu](#)

9. TIGHT (LOW-PERMEABILITY) GAS SANDSTONES

(See also IX. Shaly Sands)

Horne, J.C., Forster, J.R., 1995, Depositional, diagenetic, and tectonic controls on Frontier Formation reservoir characteristics, Moxa Arch, southwestern Wyoming, SPE-29556, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 143-153.

Iverson, W.P., and Surdam, R.C., 1995, Tight gas sand production from the Almond Formation, Washakie Basin, Wyoming, SPE-29559, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 163-176.

Lorenz, J.C. and Laubach, S.E., 1994, Description and interpretation of natural fracture patterns in sandstones of the Frontier Formation along the Hogsback, southwestern Wyoming: Gas Research Institute Report GRI-94/0020, 89 p.

Miller, M.A., Holder, J., Yang, H., Jamal, Y., Gray, K.E., Fisher, R.S., and Tyler, N., 1993, Petrophysical and petrographic properties of the Ferron Sandstone, topical report: Gas Research Institute Report GRI-93/0219, variously paginated.

Proett, M.A., Waid, M.C., and Kessler, C., 1994, Real time transient analysis methods applied to wireline formation test data, SPE-28449, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 891-906.

Walker, J.P., and Fortmann, R.G., 1994, Enhanced oil recovery utilizing high-angle wells in the Frontier Formation, Badger Basin field, Park County, Wyoming: U.S.

Department of Energy Report DOE/BC/14950-4, variously paginated,

Yildiz, T., and Bassiouni, Z., 1992, Interpretation of wireline formation test data in tight gas sands, paper 92-20, in 43rd annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

[Return to Main Menu](#)

10. ABNORMAL PRESSURE DETECTION AND EVALUATION

Addis, M.A., Last, N.C., and Yassir, N.A., 1994, The estimation of horizontal stresses at depth in faulted regions and their relationship to pore pressure variation, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 887-895.

Best, M.E., and Katsube, T.J., 1995, Shale permeability and its significance in hydrocarbon exploration: *The Leading Edge*, v. 14, no. 3, p. 165-170.

Bowers, G.L., 1994, Pore pressure estimation from velocity data--accounting for overpressure mechanisms besides undercompaction, IADC/SPE-27488, in 1994 IADC/SPE drilling conference proceedings: Society of Petroleum Engineering, p. 515-530. Later published in 1995: *SPE Drilling Completion*, v. 10, no. 2, p. 89-95.

Bredehoeft, J.D., Wesley, J.B., and Fouch, T.D., 1994, Simulations of the origin of fluid pressure, fracture generation, and the movement of fluids in the Uinta Basin, Utah: *AAPG Bulletin*, v. 78, no. 11, p. 1729-1747.

Cheli, E., and Brancato, C., 1995, Woodie--a tool to support overpressure detection, SPE-29346, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 135-142.

Eldoy, E., Rafdal, J., and Dodson, T., 1995, Formation pressure determination in high pressure high temperature wells in the Central Graben Area of the North Sea, paper EEE, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Grauls, D., Dunard, J.P., and Beaufort, D., 1995, Predicting abnormal pressure from 2-D seismic velocity modeling, OTC-7692, in 27th annual offshore technology conference proceedings, v. 1, *Geology, earth sciences and environmental factors*: Society of Petroleum Engineers, p. 525-534.

Grauls, D.J., and Baleix, J.M., 1994, Role of overpressures and in situ stresses in fault-controlled hydrocarbon migration--a case study: *Marine and Petroleum Geology*, v. 11, no. 6, p. 734-741.

Gray-Stephens, D., Cook, J.M., and Sheppard, M.C., 1991, Influence of pore pressure on drilling response in hard shales, SPE-23414: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1994: *SPE Drilling and Completion*, v. 9, no. 4, p. 263-270.

Gurevich, A.E., and Chilingar, G.V., 1995, Abnormal pressures in Azerbaijan--a brief critical review and recommendations: *Journal of Petroleum Science and Engineering*, v. 13, p. 125-135.

Gurevich, A.E., Chilingar, G.V., and Aminzadeh, F., 1994, Origin of the formation fluid pressure distribution and ways of improving pressure prediction methods: *Journal of Petroleum Science and Engineering*, v. 12, p. 67-77.

Hall, P.L., 1994, Physical and chemical aspects of development of overpressuring in sedimentary environments: *Clay Minerals*, v. 29, p. 425-437.

Har, B.S., Flemings, P.B., and Deshpande, A., 1995, Porosity and pressure--role of compaction disequilibrium in the development of overpressures in a Gulf Coast Plesitocene basin: *Geology*, v. 23, no. 1, p. 45-48.

Hart, B.S., Flemings, P.B., and Deshpande, A., 1995, Porosity and pressure--role of

compaction disequilibrium in the development of geopressures in a Gulf coast Pleistocene basin: *Geology*, v. 23, no 1, p. 45-48.

Holbrook, P.W., Maggiori, D.A., and Hensley, R., 1993, Real-time pore pressure and fracture gradient evaluation in all sedimentary lithologies, SPE-26791, in *Offshore Europe 93 proceedings*, v. 2: Society of Petroleum Engineers, p. 395-408. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 117-129.

Japsen, P., 1994, Retarded compaction due to overpressure deduced from a seismic velocity/depth conversion study in the Danish central trough, North Sea: *Marine and Petroleum Geology*, v. 11, no. 6, p. 715-733.

Jeans, C.V., 1994, Clay diagenesis, overpressure and reservoir quality--an introduction: *Clay Minerals*, v. 29, p. 415-424.

Morre, J.C., Shipley, T.H., Goldberg, D. and Shipboard Scientific Party, 1995, Abnormal fluid pressures and fault-zone dilation in the Barbados accretionary prism; evidence from logging while drilling: *Geology*, v. 23, no. 7, p. 605-608.

Rasmus, J.C., and Stephens, D.M.R.G., 1990, Real-time pore pressure evaluation utilizing MWD/LWD measurements and drilling-derived formation strength, SPE-20443, in *SPE annual technical conference and exhibition, proceedings*, v. delta, Drilling: Society of Petroleum Engineers, p. 403-411. Later published in 1991: *SPE Drilling Engineering*, v. 6, no. 4, December, p. 264-272. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 130-138.

Sanyal, S.K., Robertson-Tait, A., Kramer, M., and Buening, N., 1993, Some aspects of geopressured resources in California: *Geothermal Resources Council Transactions*, v. 17, p. 175-180.

Serebryakov, V.A., and Chilingar, G.V., 1995, Abnormal pressure regime in the former USSR petroleum basins: *Journal of Petroleum Science and Engineering*, v. 13, p. 65-74.

Serebryakov, V.A., Chilingar, G.V., and Katz, S.A., 1995, Methods of estimating and predicting abnormal formation pressure: *Journal of Petroleum Science and Engineering*, v. 13, p. 113-123.

Spencer, C.W., Szalay, A., and Tatar, E., 1994, Abnormal pressure and hydrocarbon migration in the Bekes Basin, in Teleki, P.G., et al., eds., *Basin analysis in petroleum exploration*: Kluwer, Academic Publishers, p. 201-219.

Ward, C.D., Coghill, K., Broussard, M.D., 1994, The application of petrophysical data to improve pore and fracture pressure determination in North Sea central graben HPHT wells, SPE-28297, in *SPE annual technical conference and exhibition proceedings*, v. delta, Drilling: Society of Petroleum Engineers, p. 53-68.

Wensaas, L., Shaw, H.F., Gibbons, K., Aagaard, P., and Dypvik, H., 1994, Nature and causes of overpressuring in mudrocks of the Gullfaks area, North Sea: *Clay Minerals*, v. 29, p. 439-449.

Yassir, N.A., and Bell, J.S., 1994, Abnormally high fluid pressures and associated porosities and stress regimes in sedimentary basins, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 879-886.

Yassir, N.A., and Bell, J.S., 1994, Relationships between pore pressure, stresses, and present-day geodynamics in the Scotian Shelf, offshore eastern Canada: AAPG Bulletin, v. 78, no. 12, p. 1863-1880.

Yilmaz, O., Nolen-Hoeksema, R.C., and Nur, A., 1994, Pore pressure profiles in fractured and compliant rocks: Geophysical Prospecting, v. 42, p. 693-714.

[Return to Main Menu](#)

11. OIL AND GAS SHALES

Coshell, L., McIver, R.G., and Chang, R., 1994, X-ray computed tomography of Australian oil shales--non-destructive visualization and density determination: Fuel, v. 73, no. 8, p. 1317-1321.

Ettensohn, F.R., and Hendricks, R.T., 1993, Development of a core-logging manual for the eastern oil and gas shales, in Eastern oil shale symposium proceedings: Institute for Mining and Minerals Research, University of Kentucky, Lexington, p.287-293.

Hill, R., Middlebrook, M., Peterson, R., Johnson, E., McKetta, S., Wilson, G., and Branagan, P., 1993, Horizontal gas well completion technology in the Barnett Shale--analysis of the Mitchell Energy Corporation T.P. Sims B No. 1, Wise County, Texas: Gas Research Institute Report GRI-93/0282, 56 p.

Karma, R., 1991, Geology and geochemistry of the Bakken Formation (Devonian-Mississippian) in Saskatchewan: University of Regina, Saskatchewan, Canada, unpublished MS thesis, 109 p.

Lu, X., Miao, P., Watson, A.T., Pepin, G.P., Moss, R.M., and Semmelbeck, M., 1994, X-ray computed tomography studies of gas storage and transport in Devonian shales: AIChE Journal, v. 40, no. 7, p. 1246-1253.

Zuber, M.D., Frantz, J.H., Jr., and Gatens, J.M., III, 1994, Reservoir characterization and production forecasting for Antrim Shale wells--an integrated reservoir analysis methodology, SPE-28606, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 471-485.

Zuber, M.D., Vonieff, G.W., Frantz, J.H., Jr., and Gatens, J.M., III, 1994, Characterization of Michigan Antrim Shale reservoirs based on analysis of field-level data, SPE-29169, in SPE eastern regional conference proceedings: Society of Petroleum Engineers, p. 123-134

[Return to Main Menu](#)

12. HEAVY OIL AND TAR SANDSTONES

Leshchyshyn, T., and Kennedy, W., 1994, Post core analysis to determine the steam flow path in the McMurray oil sands: Journal of Canadian Petroleum Technology, v. 33, no. 7, p. 53-64.

Mathisen, M.E., Cunningham, P., Shaw, J., Vasiliou, A.A., Justice, J.H., and Guinzy, N.J., 1995, Crosswell seismic radial survey tomograms and the 3-D interpretation of a heavy oil steamflood: Geophysics, v. 60, no. 6, p. 651-659.

Mathisen, M.E., Vasiliou, A.A., Cunningham, P., Shaw, J., Justice, J.H., and Guinzy, N.J., 1995, Time-lapse crosswell seismic tomogram interpretation--implications for

heavy oil reservoir characterization, thermal recovery process monitoring, and tomographic imaging technology: *Geophysics*, v. 60, no. 6, p. 631-650.

Wade, N.H., 1990, Geotechnical parameters, chapter 3, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 39 p.

[Return to Main Menu](#)

13. COAL AND COALBED METHANE

Aguilera, R., 1993, Formation evaluation of coalbed methane reservoirs, paper CIM 93-08, in 44th annual technical meeting preprints, v. 1: CIM [Canadian Institute of Mining and Metallurgy] Petroleum Society, 10 p. Later published in 1994: *Journal of Canadian Petroleum Technology*, v. 33, no. 9, p. 22-28.

Enever, J.R., Bocking, M.A., and Clark, I.H., 1994, The application of in-situ stress measurement and numerical stress analysis to coalbed methane exploration in Australia, SPE-28780, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 373-381.

Enever, J.R., Pattison, C.I., McWatters, R.H., and Clark, I.H., 1994, The relationship between in-situ stress and reservoir permeability as a component in developing an exploration strategy for coalbed methane in Australia, in *Rock mechanics in petroleum engineering*, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 163-171.

Hollub, V.A., 1993, Results of camera surveys at Rock Creek, paper 9329, in 1993 international coalbed methane symposium proceedings, v. 2: University of Alabama, Birmingham, p. 659-665.

Kaiser, W.R., Hamilton, D.S., Scott, A.R., Tyler, R., and Finely, R.J., 1994, Geological and hydrological controls on the producibility of coalbed methane: *Journal of the Geological Society*, London, v. 151, p. 417-420.

Mavor, M.J., and McBane, R.A., 1990, Formation evaluation of exploration coalbed methane wells, paper CIM/SPE 90-101 [also SPE-21589], in *Technology in the 90's: prospering in a changing environment*: Petroleum Society of CIM/SPE international technical meeting preprints v. 3, 19 p. Later reprinted in 1992, in *Coalbed methane*: Society of Petroleum Engineers, Reprint Series No. 35, p. 27-45. Later published in 1994 as, Mavor, M.J., Close, J.C., and McBane, R.A.: *SPE Formation Evaluation*, v. 9, no. 4, p. 285-294.

Olszewski, A.J., Luffel, D.L., Hawkins, J., Zuber, M.D., McLennan, J.D., Schatz, J.F., and Truman, R.B., 1993, Development of formation evaluation technology for coalbed methane development, final report: Gas Research Institute Report GRI-93/0178, variously paginated.

Ramos, A.C.B., Davis, T.L., Anderson, J.E., and Benson, R.D., 1994, AVO analysis and modeling applied to fracture detection in coalbed methane reservoirs, Cedar Hill field, San Juan Basin, New Mexico, DP1.4, in *Expanded abstracts with biographies*, 1994 technical program: Society of Exploration Geophysicists, p. 244-247.

Whitworth, K.R., and Jackson, P.J., 1993, Use of wellbore seismics to explore for carbon in the UK [in French]: *Geologues*, no. 100-101, p. 59-66.

Return to Main Menu

14. FRACTURE DETECTION AND EVALUATION; WELLBORE BREAKOUTS AND ANALYSIS OF IN SITU STRESS (See also 19. Ground Water, 20. Igneous Rocks, 21. Geothermal Logging)

Aadnoy, B.S., Bratli, R.K., and Lindholm, C.D., 1994, In-situ stress modelling of the Snorre field, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 871-878.

Abass, H.H., Meadows, D.L., Brumley, J.L., Hedyati, S., and Venditto, J.J., 1994, Oriented perforations--a rock mechanics view, SPE-28555, in SPE annual technical conference and exhibition proceedings, v. pi, Production engineering: Society of Petroleum Engineers, p. ?. Later reprinted in 1995, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 13-27.

Addis, M.A., Last, N.C., and Yassir, N.A., 1994, The estimation of horizontal stresses at depth in faulted regions and their relationship to pore pressure variation, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 887-895.

Armstrong, P., Ireson, D., Chmela, B., Dodds, K., Esmeroy, C., Miller, D., Hornby, B., Sayers, C., Schoenberg, M., Leaney, S., Lynn, H., 1994, The promise of elastic anisotropy: Schlumberger Oilfield Review, v. 6, no. 4, p. 36-47.

Ata, E., and Michelena, R.J., 1995, Mapping distribution of fractures in a reservoir with P-S converted waves: The Leading Edge, v. 14, no. 6, p. 664-676.

Ball, V., and Batzle, M., 1994, Contrasting stress dependence of compressional and shear velocities--implications for laboratory, logging, and seismic measurements, SL1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1065-1068.

Barton, C.A., and Zoback, M.D., 1994, Stress perturbations associated with active faults penetrated by boreholes; possible evidence for near-complete stress drop and a new technique for stress magnitude measurement: Journal of Geophysical Research, v. B99, no. 5, May 10, p. 9373-9390.

Belfield, W.C., and Sovich, J.P., 1995, Fracture statistics from horizontal wellbores: Journal of Canadian Petroleum Technology, v. 34, no. 6, p. 47-50.

Boldreel, L.O., Harvey, P.K.H., Pezard, P., and Iturrino, G.J., 1995, Lithostratigraphy, fracturing, and fluid flow in the upper oceanic crust, chapter 27, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 313-319.

Bredehoeft, J.D., Wesley, J.B., and Fouch, T.D., 1994, Simulations of the origin of fluid pressure, fracture generation, and the movement of fluids in the Uinta Basin, Utah: AAPG Bulletin, v. 78, no. 11, p. 1729-1747.

Brumley, J., Kuhlman, R., Abass, H., Christiansen, C., and Nydahl, L., 1994, In-situ stress field determination and formation characterization--offshore Qatar case history, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 905-919.

Butler, R.M., 1994, Producing naturally fractured reservoirs with horizontal wells,

chapter 9, in Horizontal wells for the recovery of oil, gas, and bitumen: Petroleum Society of CIM [Canadian Institute of Mining and Metallurgy], Calgary Section, p. 143-162.

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.

Caillet, G., Deboaisne, R., Mathis, B., and Roux, C., 1994, The present-day stress regime in some deep structures of quadrant 25, offshore Norway: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 2, p. 381-390.

Caramanica, F.P., and Hill, D.G., 1994, Spatial delineation of natural fractures and relation to gas production, SPE-29170, in SPE eastern regional conference proceedings: Society of Petroleum Engineers, p. 135-142.

Chen, S., Yao, X., Qiao, J., and Watson, A.T., 1994, Characterization of fractures and multiphase flow in fractured permeable rocks using NMR imaging techniques, paper SCA-9402, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 17-28.

Cicerone, R.D., 1991, Detection and characterization of in situ fractures in the earth from vertical seismic profiling data: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Cicerone, R.D., and Toksoz, M.N., 1995, Fracture characterization from vertical seismic profiling data: Journal of Geophysical Research, v. 100, no. B3, March 10, p. 4131-4148.

Cipolla, C.L., Liu, D., and Kyte, D.G., 1994, Practical application of in-situ stress profiles, SPE-28607, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 487-499.

Cowgill, S.M., Meredith, P.G., Murrell, A.F., Brereton, N.R., 1994, Heterogeneous stress orientations in the North Sea basin, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 963-970.

Crampin, S., 1993, Shear-wave anisotropy and fracture criticality--the potential for monitoring hydrocarbon production, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1516-1521.

Crampin, S., and Booth, D.C., 1989, Shear-wave splitting showing hydraulic dilation of pre-existing joints in granite: Scientific Drilling, v. 1, no. 1, p. 21-26.

Dangerfield, J., Knight, I., and Farrell, H., 1992, Characterization of faulting and fracturing in Ekofisk field from seismic, core, and log data, in Larsen, R.M., Brekke, H., Larsen, B.T., and Talleraas, E., eds., Structural and tectonic modelling and its application to petroleum geology: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication No. 1, p. 397-407.

Dart, R.L., and Swolfs, H.S., 1992, Subparallel faults and horizontal-stress orientations--an evaluation of in-situ stresses inferred from elliptical wellbore enlargements, in Larsen, R.M., Brekke, H., Larsen, B.T., and Talleraas, E., eds., Structural and tectonic modelling and its application to petroleum geology: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication No. 1, p. 519-529.

Dyke, C.G., Wu, B., and Milton-Taylor, D., 1992, Advances in characterising natural fracture permeability from mud log data, SPE-25022, in European petroleum conference

proceedings, v. 2: Society of Petroleum Engineers, 63-73. Later published in 1995: SPE Formation Evaluation, v. 10, no. 3, p. 160-166.

Enever, J.R., Bocking, M.A., and Clark, I.H., 1994, The application of in-situ stress measurement and numerical stress analysis to coalbed methane exploration in Australia, SPE-28780, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 373-381.

Enever, J.R., Pattison, C.I., McWatters, R.H., and Clark, I.H., 1994, The relationship between in-situ stress and reservoir permeability as a component in developing an exploration strategy for coalbed methane in Australia, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 163-171.

Esmersoy, C., Kane, M., Boyd, A., and Denoo, S., 1995, Fracture and stress evaluation using dipole-shear anisotropy logs, paper J, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hamton, D.W., Hernandez, J.G., Vasques, G.A.V., Aquino, E.V., Barton, C., Laude, L., Lockhart, A.M.E., and Peebles, R.G., 1994, An integrated study of a Campache Bay fractured carbonate reservoir, SPE-28672, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 33-47.

Hansen, K.S., Prats, M., and Chan, C.K., 1993, Finite-element modeling of depletion-induced reservoir compaction and surface subsidence in the South Belridge oil field, California, SPE-26074, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 437-452. Later published in 1995 as, Modeling of reservoir compaction and surface subsidence at South Belridge: SPE Production and Facilities, v. 10, no. 3, p. 134-143.

Harikrishnan, R., and Hareland, G., 1995, Prediction of minimum principal in-situ stress by comparison and verification of four methods, SPE-29258, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 69-76

Hill, R., Middlebrook, M., Peterson, R., Johnson, E., McKetta, S., Wilson, G., and Branagan, P., 1993, Horizontal gas well completion technology in the Barnett Shale--analysis of the Mitchell Energy Corporation T.P. Sims B No. 1, Wise County, Texas: Gas Research Institute Report GRI-93/0282, 56 p.

Hill, R.E., Peterson, R.E., Warpinski, N.R., Lorenz, J.C., Teufel, L.W., and Aslakson, J.K., 1994, Techniques for determining subsurface stress direction and assessing hydraulic fracture azimuth, SPE-29192, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 305-320.

Hillis, R.R., and Williams, A.F., 1993, The contemporary stress field of the Barrow-Dampier sub-basin and its implications for horizontal drilling: Exploration Geophysics, v. 24, p. 567-576.

Holbrook, P.W., 1995, The relationship between porosity, mineralogy and effective stress in granular sedimentary rocks, paper AA, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Janot, P., Gauer, P., and Gross, E., 1988, Orientation of tectonic stress in western Europe from borehole breakouts [in French]: Revue de l'Institut Francais du Petrole, v. 43, no. 4, p. 517-521.

Kasha, L., Richards, S., and McDonald, J., 1993, Through casing fracture detection in

the Trenton dolomite using sonic techniques, paper 3, in 32nd annual conference proceedings: Ontario Petroleum Institute, Ontario, Canada, 15 p.

Kay, S.E., Dougherty, M.E., and Pelton, J.R., 1994, The relationship of seismic velocity structure and surface fracture characteristics of basalt outcrops to rippability estimates, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 107-120.

Koster, K., Williams, M., Esmersoy, C., and Walsh, J., 1994, Applied production geophysics using shear-wave anisotropy--production applications for the dipole shear imager and the multicomponent VSP, DP1.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 233-235.

Koestler, A.G., and Reksten, K., 1994, 3D characterization of the fracture network in a deformed chalk reservoir analogue--the Lagerdorf case, SPE-28728, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 573-583.

Krammer, A., Menger, S., Chabernaud, T., and Fuchs, K., 1994, Borehole televiewer data analysis from the New Hebrides island arc--the state of stress at hole 829A and 831B, in Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 565-576.

Lee, C-H., and Farmer, I., 1994, Rock discontinuity characterization, chapter 2, in Fluid flow in discontinuous rocks: Chapman and Hill, London, p.38-64.

Lee, D.S., Walden, A., and Wachi, N., 1994, Fracture characterization of the Monterey Formation using VSP: Journal of Seismic Exploration, v. 3, no. 4, p. 335-350.

Lempp, C., Natau, O., Bayer, U., and Welte, D.H., 1994, The effect of temperature on rock mechanical properties and fracture mechanisms in source rocks--experimental results, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 147-154.

Lindholm, C.D., Bungum, H., Bratli, R.K., Dahl, N., Torudbakken, B., Aadnoy, B.S., and Atakan, K., 1995, Crustal stress in the northern North Sea as inferred from borehole breakouts and earthquake focal mechanisms: Terra Nova, v. 7, no. 1, p. 51-59.

Lorenz, J.C. and Laubach, S.E., 1994, Description and interpretation of natural fracture patterns in sandstones of the Frontier Formation along the Hogsback, southwestern Wyoming: Gas Research Institute Report GRI-94/0020, 89 p.

Luthy, S.T., and Grover, G.A., 1995, Three dimensional geologic modelling of a fractured reservoir, Saudi Arabia, SPE-29814, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 419-430.

Lynn, H.B., Bates, R., Layman, M., and Jones, M., 1995, Natural fracture characterization using P-wave reflection seismic data, VSP, borehole imaging logs, and the in-situ stress field determination, SPE-29595, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 493-506.

Lynn, H.B., Simon, K.M., Layman, M., Schneider, R., Bates, C.R., and Jones, M., 1995, Use of anisotropy in P-wave and S-wave data for fracture characterization in a naturally

fractured gas reservoir: *The Leading Edge*, v. 14, no. 8, p. 887-893.

Martin, C.D., Martino, J.B., and Dzik, E.J., 1994, Comparison of borehole breakouts from laboratory and field tests, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 183-190.

Mercer, B., Romero, D., Jenner, J., and Shray, F., 1994, Detect fractures when drilling with oil-based mud: *Petroleum Engineer International*, v. 66, no. 9, p. 29-37.

Michelena, R.J., Ata, E., Sierra, J., 1994, Exploiting P-S converted waves--part 1, modeling the effects of anisotropy and heterogeneities, DP1.2, part 2, application to fractured reservoir, DP1.3, in *Expanded abstracts with biographies, 1994 technical program*: Society of Exploration Geophysicists, p. 236-243.

Miller, T.W., 1995, New insights on natural hydraulic fractures induced by abnormally high pore pressure: *AAPG Bulletin*, v. 79, no. 7, p. 1005-1018.

Montone, P., Amato, A. Chiarabba, C., Buonasorte, G., and Fiordelisi, A., 1995, Evidence of active extension in quaternary volcanoes of central Italy from breakout analysis and seismicity: *Geophysical Research Letters*, v. 22, no. 4, p. 1909-1912.

Nolen-Hoeksema, R.C., Avasthi, J.M., Pape, W.C., and El Rabba, A.W.M., 1992, Waterflood improvement in the Permian Basin--impact of in-situ stress evaluations, SPE-24873, in *SPE annual technical conference and exhibition proceedings*, v. sigma, Reservoir engineering: Society of Petroleum Engineers, p. 81-91. Later published in 1994: *SPE Reservoir Engineering*, v. 9, no. 4, p. 254-260.

Paillet, F.L., 1995, Practical hydraulic tomography in heterogeneous fractured aquifers, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 559-569.

Paillet, F.L., and Ollila, P., 1994, Identification, characterization, and analysis of hydraulically conductive fractures in granitic basement rocks, Millville, Massachusetts: U.S. Geological Survey Water-Resources Investigations Report 94-4185, 38 p.

Pedersen, T., and Bjorlykke, K., 1994, Fluid flow in sedimentary basin--model of pore water flow in a vertical fracture: *Basin Research*, v. 6, no. 1, p. 1-16.

Perez, J.M., Poston, S.W., Berg, R.R., Friedman, M., Gani, A.F., and Nighswander, J., 1994, Improving the potential to produce oil from naturally fractured reservoirs, SPE-28677, in *SPE international petroleum conference and exhibition of Mexico proceedings*: Society of Petroleum Engineers, p. 97-110.

Pospisil, G., Carpenter, C.C., and Pearson, C.M., 1995, Impacts of oriented perforating on fracture stimulation treatments--Kuparuk River field, Alaska, SPE-29645, in *SPE western regional meeting proceedings*: Society of Petroleum Engineers, p. 305-311.

Ramos, A.C.B., Davis, T.L., Anderson, J.E., and Benson, R.D., 1994, AVO analysis and modeling applied to fracture detection in coalbed methane reservoirs, Cedar Hill field, San Juan Basin, New Mexico, DP1.4, in *Expanded abstracts with biographies, 1994 technical program*: Society of Exploration Geophysicists, p. 244-247.

Renlie, L., 1994, Multipole logging in a formation with stress-relief-induced anisotropy: *Geophysics*, v. 59, no 12, p. 1806-1812.

Roca-Ramisa, L., Mendoza, J., and Sanchez-Galindo, M.A., 1994, Evaluation of fracture distribution and continuity in carbonate reservoirs using wellbore imaging tools,

SPE-28676, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 81-96.

Sanders, R.L., 1994, The fracture intensity log--a proven technique for evaluating fracturing in low-permeability reservoirs, SPE-25894, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 9-16.

Sasaki, Y., 1994, Anisotropic resistivity tomography--a model study for characterization of fractured rocks, DP1.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 252-255.

Sato, M., Miwa, T., and Niitsuma, H., 1995, Application of polarimetric borehole radar to crack characterization, paper FFF, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Schoenberg, M., and Sayers, C., 1993, Seismic anisotropy of fractured rocks, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1511-1515.

Soudet, H.-J., Sorriaux, P., and Rolando, J.-P., 1994, Relationship between fractures and karstification; the oil bearing paleokarst of Rospo Mare (Italy) [in French]: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 1, p. 257-297.

Sullivan, K.B., and Schepel, K.J., 1995, Borehole image logs--applications in fractured and thinly bedded reservoirs, paper T, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Tan, C.P., Willoughtby, D.R., Hillis, R.R., Zhou, S., Muhlhaus, H-B., and Aoki, T., 1994, Well-bore instability in the northwest shelf of Australia: APEA [Australian Petroleum Exploration Association] Journal, v. 34, part 1, p. 3-18.

Thiercelin, M., Desroches, J., and Kurkjian, A., 1994, Open hole stress tests in shales, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 921-929.

Thiercelin, M.J., and Plumb, R.A., 1991, Core-based prediction of lithologic stress contrasts in east Texas formations, SPE-21847, in SPE Rocky Mountain regional meeting/low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 251-258.

Tuan, P.A., Martyntsis, O.F., and Dong, T.L., 1994, Evaluation of fracture aperture and wettability, capillary properties of oil-bearing fractured granite, paper SCA-9410, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 109-120.

Walker, J.P., and Fortmann, R.G., 1994, Enhanced oil recovery utilizing high-angle wells in the Frontier Formation, Badger Basin field, Park County, Wyoming: U.S. Department of Energy Report DOE/BC/14950-4, variously paginated,

Walls, J.D., and Dvorkin, J., 1991, Measured and calculated horizontal stresses in the Travis Peak Formation, SPE-21843, in SPE Rocky Mountain regional meeting/low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 259-263.

Walls, J.D., Dvorkin, J., and Mavko, G., 1994, In-situ stress magnitude and azimuth from well log measurements, topical report: Gas Research Institute Report No. 94/0271, 50 p.

Ward, C.D., Coghill, K., Broussard, M.D., 1994, The application of petrophysical data to improve pore and fracture pressure determination in North Sea central graben HPHT wells, SPE-28297, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 53-68.

Werner, K.S., 1990, Direction of maximum horizontal compression in western Oregon determined by borehole breakouts: Oregon State University, Corvallis, unpublished MS thesis, 159 p.

Wilhelm, H., Rabbel, W., Luschen, E., Li, Y.-D., and Bried, M., 1994, Hydrological aspects of geophysical borehole measurements in crystalline rocks of the Black Forest: Journal of Hydrology, v. 157, p. 325-347.

Winkler, K.W., 1994, Laboratory observations of azimuthal velocity variations caused by borehole stress concentrations, SL3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1133-1135.

Winkler, K., Plona, T., Hsu, C.-J., Sinha, B.K., and Kostek, S., 1994, Effects of borehole stress concentrations on dipole anisotropy measurements, SL3.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1136-1138.

Wright, C.A., Conant, R.A., Golich, G.M., Bondor, P.L., Murer, A.S., and Dobie, C.A., 1995, Hydraulic fracture orientation and production/injection induced reservoir stress changes in diatomite waterfloods, SPE-29625, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 139-152.

Wu, H., Willemse, J.M., and Pollard, D.D., 1994, Prediction of fracture density and drainage distance in layered rock masses using borehole data, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 487-494.

Yale, D.P., Rodriguez, J.M., Mercer, T.B., and Blaisdell, D.W., 1994, In-situ stress orientation and the effects of local structure--Scott field, North Sea, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 945-953.

Yassir, N.A., and Bell, J.S., 1994, Relationships between pore pressure, stresses, and present-day geodynamics in the Scotian Shelf, offshore eastern Canada: AAPG Bulletin, v. 78, no. 12, p. 1863-1880.

Yassir, N.A., and Bell, J.S., 1994, Abnormally high fluid pressures and associated porosities and stress regimes in sedimentary basins, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 879-886.

Yilmaz, O., Nolen-Hoeksema, R.C., and Nur, A., 1994, Pore pressure profiles in fractured and compliant rocks: Geophysical Prospecting, v. 42, p. 693-714.

Zhou, S., 1994, A program to model the initial shape and extent of borehole breakout: Computers and Geosciences, v. 20, no. 7/8, p. 1143-1160.

Zoback, M.D., and Peska, P., 1995, In-situ stress and rock strength in the BBRN/DOE Pathfinder well, south Eugene Island, Gulf of Mexico, SPE-29233: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1995: Journal of Petroleum

Technology, v. 47, no. 7, p. 582-585.

[Return to Main Menu](#)

15. PERMAFROST AND GAS HYDRATES

- Brooks, J.M., Anderson, A.L., Sassen, R., MacDonald, I.R., Kennicutt, M.C., II, and Guinasso, N.L., Jr., 1994, Hydrate occurrences in shallow subsurface cores from continental slope sediments, in International conference on natural gas hydrates proceedings: Annals of the New York Academy of Sciences, v. 715, p. 381-391.
- Brooks, J.M., Field, M.E., and Kennicutt, M.C., II, 1991, Observations of gas hydrates in marine sediments, offshore northern California: Marine Geology, v. 96, p. 103-109.
- Collett, T.S., 1993, Natural gas production from Arctic gas hydrates, in Howell, D.G., ed., The future of energy gases: U.S. Geological Survey Professional Paper 1570, p. 299-311.
- Collett, T.S., 1994, Permafrost-associated gas hydrate accumulations, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 247-269.
- Coment Logan Group, 1990, Bulk volume and water saturation analysis for permafrost and sub-permafrost section of 5 wells, Beaufort Sea: Geological Survey of Canada Open-File Report No. 2228, 4 p.
- Dillon, W.P., Lee, M.W., and Coleman, D.F., 1994, Identification of marine hydrates in situ and their distribution off the Atlantic coast of the United States, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 364-380.
- Dillon, W.P., Lee, M.W., Fehlhaber, K., and Coleman, D.F., 1993, Gas hydrates on the Atlantic continental margin of the United States--controls and concentration, in Howell, D.G., ed., The future of energy gases: U.S. Geological Survey Professional Paper 1570, p. 313-330.
- Englezos, P. and Hatrikiriakos, S.G., 1994, Environmental aspects of clathrate hydrates, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 270-282.
- Ginsburg, G.D., and Soloviev, V.A., 1994, Russian research on submarine gas hydrate geology, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 484-486.
- Ginsburg, G.D., and Soloviev, V.A., 1995, Submarine gas hydrate estimation--theoretical and empirical approaches, OTC-7693, in 27th annual offshore technology conference proceedings, v. 1, Geology, earth sciences and environmental factors: Society of Petroleum Engineers, p. 513-518.
- Judge, A., 1973, The prediction of permafrost thickness: Canadian Geotechnical Journal, v. 10, no. 1, p. 1-11.
- Judge, A., and Taylor, A., 1985, Permafrost distribution in northern Canada--interpretation of well logs, in Brown, J., Metz, M.C., and Hoekstra, P., eds., Workshop on permafrost geophysics: U.S. National Research Council, Polar Research Board,

Committee on Permafrost, Special Report 85-5, p. 19-25.

Kamath, V.A., Sharma, G.D., and Patil, S.L., 1991, Development of Alaskan gas hydrate resources: U.S. Department of Energy Report DOE/FE/61114-3031, 149 p. A condensed version later published in 1992 as, Sharma, G.D., Kamath, V.A., and Patil, S.L., Natural gas hydrate resources of the Alaskan Arctic and their recovery potential, in 2nd international offshore and polar engineering conference proceedings, v. 1: International Society of Offshore and Polar Engineers, Golden Colorado, p. 652-659.

King, M.S., Pandit, B.I., Hunter, J.A., and Gajtani, M., 1982, Some seismic, electrical, and thermal properties of sub-seabottom permafrost from the Beaufort Sea, in French, H.M., ed., The Roger J.E. Brown memorial volume [proceedings of the 4th Canadian permafrost conference]: National Research Council of Canada, 268-273.

Krason, J., and Finley, P.D., 1993, Messoyakh gas field--Russia, in Beaumont, E.A., and Foster, N.H., eds., Structural traps VII: AAPG Treatise of Petroleum Geology, Atlas of Oil and Gas Fields, p. 197-220.

Kvenvolden, K.A., 1993, Gas hydrates as a potential energy resource--a review of their methane content, in Howell, D.G., ed., The future of energy gases: U.S. Geological Survey Professional Paper 1570, p. 555-561.

Kvenvolden, K.A., 1993, Gas hydrates--geological perspective and global change: Reviews of Geophysics, v. 31, no. 2, May, p. 173-187.

Kvenvolden, K.A., 1994, Gas hydrate occurrence and issues, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 232-246.

Lachenbruch, A.H., Sass, J.H., Marshall, B.V., and Moses, T.H., Jr., 1982, Permafrost, heat flow and the geothermal regime at Prudhoe Bay, Alaska: Journal of Geophysical Research, v. 87, no. B11, November 10, p. 9301-9336.

Lee, M.W., Hutchinson, D.R., Agena, W.F., Dillon, W.P., Miller, J.J., and Swift, B.A., 1994, Seismic character of gas hydrates on the southeastern U.S. continental margin: Marine Geophysical Research, v. 16, no. 3, June, p. 163-184,

Lee, M.W., Hutchinson, D.R., Dillon, W.P., Miller, J.J., Agena, W.F., and Swift, B.A., 1992, A method of estimating the amount of in-situ gas hydrates in deep marine sediments: U.S. Geological Survey Open-File Report OF92-276, 29 p. Later published in 1993 as, Use of seismic data in estimating the amount of in-situ gas hydrates in deep marine sediment, in Howell, D.G., ed., The future of energy gases: U.S. Geological Survey Professional Paper 1570, p. 563-581.

MacDonald, G.J., 1990, Role of methane clathrates in past and future climates: Climatic Change, v. 16, p. 247-281.

MacKay, M.E., Jarrard, R.D., Westbrook G.K., and Hyndman, R.D., 1994, Origin of bottom-simulating reflectors--geophysical evidence from the Cascadia accretionary prism: Geology, v. 22, May, p. 459-462.

Makogon, Y.F., 1981, Hydrates of natural gas: PennWell Books, Tulsa, Oklahoma, 237 p.

Makogon, Y.F., Trebin, F.A., Trofimuk, A.A., Tsarev, V.P., and Cherskiy, N.V., 1972, Detection of a pool of natural gas in a solid (hydrated gas) state: Doklady Earth Science Section, v. 196, p. 197-200.

Malone, R.D., 1994, Overview--gas hydrate geology and geography, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 225-231.

Malone, R.D., 1994, Hydrate characterization research overview, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 358-363.

Malone, R.D., and Dillon, W., 1992, Detection development needs for gas hydrates in sediments: U.S. Department of Energy Report DOE/METC/C-92/7011, 9 p. Also published in 1992, in 2nd international offshore and polar engineering conference proceedings, v. 1: International Society of Offshore and Polar Engineers, Golden Colorado, p. 660-668.

Max, M.D., and Lowrie, A., 1992, Natural gas hydrate--Arctic and Nordic Sea potential, in Vorren, T.O., Bergsager, E., Dahl-Stamnes, O.A., Holter, E., Johansen, B., Lie, E., and Lund, T.B., eds., Arctic geology and petroleum potential: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication, No. 2, p. 27-53.

Muhl, D.V., 1993, Borehole logging, in Geophysical surveys in the permafrost of the Upper Engadin [in German]: Mitteilungen der Versuchsanstalt fur Wasserbau, Hydrologie und Gaziologie, no. 122, p. 142-155.

Pearson, C., Murphy, J., and Hermes, R., 1986, Acoustic and resistivity measurements on rock samples containing tetrahydrofuran hydrates--laboratory analogues to natural gas hydrate deposits: Journal of Geophysical Research, v. 91, no. B14, December 10, p. 14,132-14,138.

Prensky, S.E., 1995, A review of gas hydrates and formation evaluation of hydrate-bearing reservoirs, paper GGG, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Rowe, M.M., and Gettrust, J.F., 1994, Methane hydrate content of Blake Outer Ridge sediments, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 492-494.

Saarenketo, T., 1995, The use of dielectric and electrical conductivity measurements and ground penetrating radar for frost susceptibility evaluations of subgrade soils, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 73-85.

Seguin, M.K., and Frydecki, J., 1990, Geophysical detection and possible estimation of ice content in permafrost in northern Quebec: The Leading Edge, v. 9, no. 10, p. 25-29.

Singh, S.C., and Minshull, T.A., 1994, Velocity structure of a gas hydrate reflector at Ocean Drilling Program site 889 from a global-seismic waveform inversion: Journal of Geophysical Research, v. 99, no. B12, December 10, p. 24,221-24,233.

Sloan, E.D., Jr., 1990, Clathrate hydrates of natural gases: Marcel Dekker, Inc., New York, ? p.

Sloan, E.D., Jr., 1991, Natural gas hydrates, SPE-23562: Journal of Petroleum Technology, v. 43, no. 12, p. 1414-1417.

Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., 1994, International conference on

natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, 579 p.

Smith, S.L., and Judge, A., 1994, The distribution of natural gas hydrates in Canada, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 495-497.

Weaver, J.S., and Stewart, J.M., 1982, In situ hydrates under the Beaufort Sea shelf, in 4th Canadian permafrost conference proceedings: Natural Research Council of Canada, Roger J.E. Brown Memorial Volume, p. 312-319. : National Research Council of Canada, 268-273. Later published in 1983 as, Stewart, J.M., and Weaver, J.S., Permafrost and hydrates under the Beaufort Sea, paper K, in 24th annual logging symposium transactions: Society of Professional Well Log Analysts, 18 p.

[Return to Main Menu](#)

16. EVAPORITES

Hirlemann, G., 1993, Direct and indirect dipmeter logging; comparison and knowledge of sylvanite levels in salt beds of the Congo coastal basin [in French]:

Renoux, P., 1993, Identification of potassic sequences in an evaporitic series [in French]: Geologues, no. 100-101, p. 49-54.

[Return to Main Menu](#)

17. MINERAL EXPLORATION AND EVALUATION

Auchincloss, P.V., 1991, High-resolution magnetic susceptibility logger for mineral exploration boreholes; design of a prototype: Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 92 p.

Borsaru, M., Ceravolo, C., and Tchen, T., 1995, The application of the low activity borehole logging tool to the iron ore mining industry: Nuclear Geophysics, v. 9, no. 1, p. 55-62.

Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., 1990, Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, variously paginated.

Hollyer, G.M., 1991, Applications of physical property logging in base metal exploration; case history of the Sheep Creek deposit, central Montana, USA: Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 245 p.

Khaykovich, I.M., and Serykh, A.S., 1995, Spectrometric gamma logging in mineral deposits: Nuclear Geophysics, v. 9, no. 1, p. 35-43.

Lebret, F., 1993, Logging in exploration for sulfur minerals [in French]: Geologues, no. 100-101, p. 33-36.

Mathis, V., 1993, Logging and mineral exploration in sedimentary terrains [in French]: Geologues, no. 100-101, p. 37-41.

Nelson, P.H., and Johnston, D., 1994, Geophysical and geochemical logs from a copper oxide deposit, Santa Cruz project, Casa Grande, Arizona: Geophysics, v. 59, no 12, p. 1827-1838.

Rea, K.A., 1992, A prototype high resolution borehole magnetic susceptibility tool:

Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 57 p.

[Return to Main Menu](#)

18. GROUND WATER APPLICATIONS

(See also 15. Fracture Detection, 20. Igneous Rocks)

Antonelli, R., Zambrano, R., Mares, S., Zboril, A., 1995, Integration of hydrogeological, geoelectrical and logging methods for aquifer contamination assessment, under unfavorable conditions (Veneto region, northeast Italy), in Kovar, K., and Krasny, J., eds., Groundwater quality--remediation and protection (GQ'95): International Association of Hydrological Sciences [IAHS] Publication No. 225, p. 29-37.

Bachu, S., 1995, Synthesis and model of formation water flow, Alberta Basin, Canada: AAPG Bulletin, v. 79, no. 8, p. 1159-1178.

Benson, A.K., 1994, Environmental geophysics--locating and evaluating subsurface geology, geologic hazards, groundwater contamination, etc., in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 285-303.

Boughriba, M., Walraevens, K., and Beeuwsaert, E., 1991, Geo-electrical prospection of the salinization in the Wester Scheldt Polders near Assenede (Belgium): NWT [Natuurwetenschappelijk Tijdschrift], v. 73, no. 4, p. 137-146.

Chapellier, D., 1993, Logs and hydrogeology [in French]: Geologues, no. 100-101, p. 7-10.

Collier, H.A., 1993, Borehole geophysical techniques for determining the water quality and reservoir parameters of fresh and saline water aquifers in Texas: University of Texas at Dallas, unpublished Ph.D. dissertation, 695 p. Also published in 1993: Texas Water Development Board Report 343, 2 volumes, variously paginated.

Crowder, R.E., Pedler, W.H., Seracuse, J.M., Myers, N.J., Daniel, J., and Haines, L., 1995, Assessment of geological and hydrological features in a basaltic environment using borehole geophysical techniques, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 551-557.

Daev, D.S., Zinchenko, V.S., Talalov, A.D., Andrieux, P., Camerlynck, C., Rakotondrasoa, G., 1993, Dielectric permittivity logging applied to hydrology and civil engineering [in French]: Geologues, no. 100-101, p. 11-14.

Evans, D.G., Anderson, W.P., Jr., and Tsang, C-F., 1992, Borehole fluid experiments near salt contamination sites in Maine, in Focus conference on eastern regional ground water issues proceedings: Ground Water Management, Book 13, p. 797-807.

Faye, R.E., and Smith, W.G., 1994, Relations of borehole resistivity to the horizontal hydraulic conductivity and dissolved-solids concentration in water of clastic coastal plain aquifers in the southeastern United States: U.S. Geological Survey Water-Supply Paper 2414, 33 p.

Geldon, A.L., 1993, Preliminary hydrogeologic assessment of boreholes UE-25c #1, UE-25c #2, and UE-25c #3, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 92-4016, 85 p.

Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., 1990, Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, variously paginated.

Kelley, W.E., and Mares, S., eds., 1993, Applied geophysics in hydrogeological and engineering practice: Elsevier, Amsterdam, 288 p.

Kelley, W.E., and Mares, S., eds., 1993, Geophysical surveys for hydrogeological purposes, chapter 3, in Applied geophysics in hydrogeological and engineering practice: Elsevier, Amsterdam, p. 31-101.

Kelley, W.E., and Mares, S., eds., 1993, Logging of hydrogeological wells, in Applied geophysics in hydrogeological and engineering practice, chapter 4: Elsevier, Amsterdam, p. 150-164.

Kennedy, T.E., 1992, Methodology for the correlation of electromagnetic induction log data with hydrogeological data obtained by other methods: Boston College, Massachusetts, unpublished M.S. thesis.

Keys, W.S., and Pawlowicz, J.G., 1990, Determining the water table, chapter 4, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 22 p.

Kramers, J., Yuan, L-P., Bachu, S., and Cuthiell, D., 1990, Reservoir characterization case study--sandy facies, in Bachu, S., ed., 5th Canadian/American conference on hydrogeology: National Water Well Association, Dublin, Ohio, [also Alberta Research Council Information Series 116] p. 72-86.

Low, S., Kelley, V., and Vomvoris, S., 1994, Hydraulic borehole characterization through the application of moment methods to fluid conductivity logs: Journal of Applied Geophysics, v. 31, p. 117-131.

MacFarlane, P.A., Doveton, J.H., Feldman, H.R., Butler, J.J., Jr., Combes, J.M., and Collins, D.R., 1994, Aquifer/aquitard units of the Dakota aquifer system in Kansas--methods of delineation and sedimentary architecture effects on ground-water flow and flow properties: Journal of Sedimentary Research, v. B64, no. 4, p. 464-480.

Mack, T.J., 1993, Detection of contaminant plumes by borehole geophysical logging: Ground Water Monitoring Review, v. 13, no. 1, p. 107-114.

Mares, S., Zboril, A., and Kelley, W.E., 1994, Logging for determination of aquifer hydraulic properties: The Log Analyst, v. 35, no. 6, p. 16-27.

Miller, P.T., 1993, A study of New Jersey coastal aquifers using high-resolution seismic reflection and well-log analysis methods: University of Delaware, Newark, unpublished Ph.D. thesis, 407 p.

Molz, F.J., Boman, G.K., Young, S.C., Waldrop, W.R., 1994, Borehole flowmeters--field application and data analysis: Journal of Hydrology, v. 163, p. 347-371.

Morin, R.H., and Urish, D., 1993, Hydrostratigraphic characterization of a coastal aquifer by means of geophysical log analysis, Cape Cod National Seashore, Massachusetts, paper M, in 5th international symposium on geophysics for minerals, geotechnical, and environmental applications, proceedings: Society of Professional Well Log Analysts, Mineral and Geotechnical Logging Society, Chapter-at-Large, 23 p. Later published in 1995: The Log Analyst, v. 36, no. 4, p. 27-37.

Paillet, F.L., 1995, Practical hydraulic tomography in heterogeneous fractured aquifers,

in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 559-569.

Paillet, F.L., 1995, Scale effects in the field determination of aquifer parameters, in Water resources at risk, conference proceedings: American Institute of Hydrology, p. SL-101--SL-110.

Paillet, F.L., and Ollila, P., 1994, Identification, characterization, and analysis of hydraulically conductive fractures in granitic basement rocks, Millville, Massachusetts: U.S. Geological Survey Water-Resources Investigations Report 94-4185, 38 p.

Pedersen, T., and Bjorlykke, K., 1994, Fluid flow in sedimentary basin--model of pore water flow in a vertical fracture: Basin Research, v. 6, no. 1, p. 1-16.

Raforth, R.L., and Jehn, J.L., 1990, Preliminary results from the coring of the Denver Basin aquifers, in Groundwater engineering and management conference proceedings: Colorado Water Resources Research Institute, p. 247-258.

Robson, S.G., 1993, Techniques for estimating specific yield and specific retention from grain-size data and geophysical logs from clastic bedrock aquifers: U.S. Geological Survey Water-Resources Investigations Report 93-4198, 19 p.

Sauvagnac, S., Ledoux, E., Calmels, P., and Gaillard, B., 1991, Measurement of natural flow velocities in the Chassole deep borehole--GPF 3 program: Bulletin de la Societe geologique de France, v. 162, no. 5, p. 917-924.

Singh, S.C., and Suryanarayana, G., 1995, Hydrogeological characterization of water wells through geophysical logs in Deccan Trap of M.P., India, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 289-297.

Wilhelm, H., Rabbel, W., Luschen, E., Li, Y.-D., and Bried, M., 1994, Hydrological aspects of geophysical borehole measurements in crystalline rocks of the Black Forest: Journal of Hydrology, v. 157, p. 325-347.

Witherbee, K.G., and Hoffman, K.L., 1990, Aquifer characterization in the northern San Juan Basin, Colorado, using borehole geophysical logs, in Groundwater engineering and management conference proceedings: Colorado Water Resources Research Institute, p. 397-405.

Return to Main Menu

19. IGNEOUS AND METAMORPHIC ROCKS (Including DSDP and ODP Results)

(See also 15. Fracture Detection, 19. Ground Water, 21. Geothermal)

Bennecke, W., 1994, The identification of basalt flow features from borehole television logs, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 107-120.

Boldreel, L.O., Harvey, P.K.H., Pezard, P., and Iturrino, G.J., 1995, Lithostratigraphy, fracturing, and fluid flow in the upper oceanic crust, chapter 27, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College

Station, Texas, p. 313-319.

Bram, K., Draxler, J., Hirschmann, G., Zoth, G., Hiron, S., and Kuhr, M., 1995, The KTB borehole--Germany's superdeep telescope into the Earth's crust: Schlumberger Oilfield Review, v. 7, no. 1, p. 4-22

Crowder, R.E., Pedler, W.H., Seracuse, J.M., Myers, N.J., Daniel, J., and Haines, L., 1995, Assessment of geological and hydrological features in a basaltic environment using borehole geophysical techniques, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 551-557.

Galle, C., 1994, Neutron porosity logging and core porosity measurements in the Beauvoir granite, Massif Central Range, France: Journal of Applied Geophysics, v. 32, p. 125-137.

Gatto, H., and Draxler, J.K., 1993, Quantitative determination of elements and mineralogy in crystalline rocks [in French]: Geologues, no. 100-101, p. 74-78.

Geldon, A.L., 1993, Preliminary hydrogeologic assessment of boreholes UE-25c #1, UE-25c #2, and UE-25c #3, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 92-4016, 85 p.

Harvey, P.K.H., Pezard, P., Iturrino, G.J., Boldreel, L.O., and Lovell, M.A., 1995, The sheeted dike complex in hole 504B--observations from the integration of core and log data, chapter 26, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 305-311.

Milkereit, B., Green, A., Wu, J., White, D., and Adam, E., 1994, Integrated seismic and borehole geophysical study of the Sudbury igneous complex: Geophysical Research Letters, v. 21, no. 10, p. 931-934.

Paillet, F.L., 1995, Practical hydraulic tomography in heterogeneous fractured aquifers, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 559-569.

Paillet, F.L., and Ollila, P., 1994, Identification, characterization, and analysis of hydraulically conductive fractures in granitic basement rocks, Millville, Massachusetts: U.S. Geological Survey Water-Resources Investigations Report 94-4185, 38 p.

Pham, A.T., Martyntsev, O.F., and Tran, L.D., 1994, Evaluation of fracture aperture and wettability, capillary properties of oil-bearing fractured granite, paper SCA-9410, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 109-119.

Planke, S., 1994, Geophysical response of flood basalts from analysis of wireline logs; Ocean Drilling Program site 642, Voring volcanic margin: Journal of Geophysical Research, v. B99, no. 5, May 10, p. 9279-9296.

Sato, M., Miwa, T., and Niitsuma, H., 1995, Application of polarimetric borehole radar to crack characterization, paper FFF, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

White, D.J., Milkereit, B., Wu, J.J., Salisbury, M.H., and Mwenifumbo, J., 1994, Seismic reflectivity of the Sudbury structure North Range from borehole logs: Geophysical

Research Letters, v. 21, no. 10, May 15, p. 935-938.

Wilhelm, H., Rabbel, W., Luschen, E., Li, Y.-D., and Bried, M., 1994, Hydrological aspects of geophysical borehole measurements in crystalline rocks of the Black Forest: Journal of Hydrology, v. 157, p. 325-347.

Withers, R., Eggers, D., Fox, T., and Crebs, T., 1994, A case study of integrated hydrocarbon exploration through basalt: Geophysics, v. 59, no 11, p. 1666-1679.

[Return to Main Menu](#)

20. GEOTHERMAL WELL-LOG EVALUATION

(See also XIII. Temperature Logging, 15. Fracture Detection, 19. Ground Water, 20. Igneous Rocks)

Bonner, B.P., Roberts, J.J. and Schneberk, D.J., 1994, Determining water content and distribution in reservoir graywacke from the northeast Gysers with X-ray computed tomography: Geothermal Resources Council Transactions, v. 18, p. 305-310.

Lysne, P., 1994, Development of geothermal logging systems in the United States: Sandia National Laboratory Report No. SAND-94-0389C, 9 p.

Lysne, P., and Henfling, J., 1994, Design of a pressure/temperature logging system for geothermal applications: Sandia National Laboratory Report No. SAND-94-0949C, 7 p.

[Return to Main Menu](#)

PART C: FIRST-AUTHOR LISTING

A. First-Author Listing

Aadnoy, B.S., Bratli, R.K., and Lindholm, C.D., 1994, In-situ stress modelling of the Snorre field, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 871-878.

Abass, H.H., Meadows, D.L., Brumley, J.L., Hedyati, S., and Venditto, J.J., 1994, Oriented perforations--a rock mechanics view, SPE-28555, in SPE annual technical conference and exhibition proceedings, v. pi, Production engineering: Society of Petroleum Engineers, p. ?. Later reprinted in 1995, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 13-27.

Adamick, J., Hall, D., Skoyles, D., Dewildt, J., and Erickson, J., 1994, AVO as an exploration tool--Gulf of Mexico case studies and examples, SL2.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1107-1111.

Addis, M.A., Last, N.C., and Yassir, N.A., 1994, The estimation of horizontal stresses at depth in faulted regions and their relationship to pore pressure variation, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 887-895.

Aguilera, R., 1993, Formation evaluation of coalbed methane reservoirs, paper CIM 93-08, in 44th annual technical meeting preprints, v. 1: CIM [Canadian Institute of Mining and Metallurgy] Petroleum Society, 10 p. Later published in 1994: Journal of Canadian Petroleum Technology, v. 33, no. 9, p. 22-28.

Ahmed, U., Crary, S.F., and Coates, G.R., 1989, Permeability estimation; the various sources and their interrelationship, SPE-19604, in SPE annual technical conference and

exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 649-662. Later published in 1990 as, The interrelationship between various permeability measurements, paper I, in International well logging symposium transactions: Society of Professional Well Log Analysts, Beijing Chapter, 21 p. Later published in 1991: Journal of Petroleum Technology, v. 43, no. 5, p. 578-587. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 118-127.

Akbar, N., and Kim, J.J., 1994, Permeability extraction--a sonic log inversion, DP3.8, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 311-314.

Akbar, M., Petricola, M., Watfa, M., Badri, M., Charara, M., Boyd, A., Cassell, B., Nurmi, R., Delhomme, J.-P., Grace, M., Kenyon, B., and Roestenburg, J., 1995, Classic interpretation problems--evaluating carbonates: Schlumberger Oilfield Review, v. 7, no. 1, p. 4-22

Akkurt R., and Guillory, A.J., Vinegar, H.J. and Tutunjian, P.N., 1995, NMR logging of natural gas reservoirs, paper N, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Al-Yousef, H.Y., Lichaa, P.M., Al-Kaabi, A.U., and Alpustun, H., 1995, Wettability evaluation of a carbonate reservoir rock from core to pore level, SPE-29885, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 461-476.

Ali, M.T.H.A., 1991, Factors affecting mercury capillary pressure measurements: King Fahd University, Saudi Arabia, unpublished MS thesis, 246 p.

Allen, D.F., Best D.L., Evans, M., and Holenka, J., 1990, The effect of wellbore condition on wireline and MWD neutron density logs, SPE-20563, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 345-356. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 235-246. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 194-200.

Allen, J.L., and Peddy, C.P., 1993, Amplitude variation with offset--Gulf Coast case studies: Society of Exploration Geophysicists, Geophysical Development Series, v. 4, 126 p.

Allen, T.T., Ward, S.L., Chavers, R.D., Robertson, T.N., and Schultz, P.K. , 1993 , Diagnosing production problems with downhole video logging at Prudhoe Bay, SPE-26043, in Western regional meeting proceedings : Society of Petroleum Engineers, p. 149-158. Later published in 1994, in European production operations conference and exhibition proceedings: Society of Petroleum Engineers, p. 7-16. Later published in 1994, as, Ward, S.L., Allen, T.T., Chavers, R.D., Robertson, T.N., Schultz, P.K.: Journal of Petroleum Technology, v. 46, no. 11, p. 973-978.

Altunbay, M., Barr, D.C., Kennaird, A.F., and Manning, D.K., 1994, Numerical geology--predicting depositional and diagenetic facies from wireline logs using core data, SPE-28794, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 507-515.

Amabeoku, M.O., Mimoune, K., and Al-Nufaili, S., 1995, Lithological variability of

electrical parameters in a sandstone sequence, SPE-29889, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 531-546.

Amar, Z.H.B.T., Egbogah, E.O., and Nurdin, A.R.B., 1995, Core-log integration for improved formation evaluation in the Duland field, offshore peninsular Malaysia, SPE-29262, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 107-122.

Ander, M.E., and Summers, T., 1994, The Deep Penetration Density Logging Tool, paper W, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 3 p.

Anderson, B., Barber, T.D., and Luling, M.G., 1995, The response of induction tools to dipping, anisotropic formations, paper D, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Anderson, B., Bryant, I., Luling, M., Spies, B., Helbig, K., 1994, Oilfield anisotropy--its origins and electrical characteristics: Schlumberger Oilfield Review, v. 6, no. 4, p. 48-56.

Andrade, A.J.N., and Luthi, S.M., 1993, Deconvolution of wireline logs using point-spread function, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 886-891.

Antonelli, R., Zambrano, R., Mares, S., Zboril, A., 1995, Integration of hydrogeological, geoelectrical and logging methods for aquifer contamination assessment, under unfavorable conditions (Veneto region, northeast Italy), in Kovar, K., and Krasny, J., eds., Groundwater quality--remediation and protection (GQ'95): International Association of Hydrological Sciences [IAHS] Publication No. 225, p. 29-37.

Armstrong, P., Ireson, D., Chmela, B., Dodds, K., Esmeroy, C., Miller, D., Hornby, B., Sayers, C., Schoenberg, M., Leaney, S., Lynn, H., 1994, The promise of elastic anisotropy: Schlumberger Oilfield Review, v. 6, no. 4, p. 36-47.

Arthur, J.D., Thornhill, J., and Williams, T.M., 1991, Oxygen activation logging as a method of demonstrating external mechanical integrity on injection wells, in Summer meeting proceedings: Underground Injection Practices Council, p. 141-148.

Ascenio, F., Garcia, A., Rivera, J., and Arellano, V., 1994, Estimation of undisturbed formation temperatures under spherical-radial heat flow conditions: Geothermics, v. 23, no. 4, p. 317-326.

Asquith, G.B., Thomerson, M.D., and Arnold, M.D., 1993, Recognizing Bell Canyon and Cherry Canyon 'behind pipe' pay sands, Reeves and Culberson Counties, Texas, in 40th annual southwestern petroleum short course, proceedings: Southwestern Petroleum Short Course Association, Lubbock, Texas, p. 361-375.

Ata, E., and Michelena, R.J., 1995, Mapping distribution of fractures in a reservoir with P-S converted waves: The Leading Edge, v. 14, no. 6, p. 664-676.

Auchincloss, P.V., 1991, High-resolution magnetic susceptibility logger for mineral exploration boreholes; design of a prototype: Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 92 p.

Austin, S., Yale, D., Page, G., and Went, D., 1994, The observation of anomalous sonic log responses in deviated wells in the southern North Sea, paper U, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Ayan, C., Colley, N., Cowanb, G., Ezekwe, E., Wannell, M., Goode, P., Halford, F., Joseph, J., Mongini, A., Obondoko, G., and Pop, J., 1994, Measuring permeability anisotropy--the latest approach: Schlumberger Oilfield Review, v. 6, no. 4, p. 24-35.

Bachu, S., 1995, Synthesis and model of formation water flow, Alberta Basin, Canada: AAPG Bulletin, v. 79, no. 8, p. 1159-1178.

Bachu, S., Cuthiell, D., and Kramers, J., 1990, Effects of core scale heterogeneities on fluid flow in a clastic reservoir, in Agterberg, F.P., and Bonham-Carter, G.F., eds., Statistical applications in the earth sciences: Geological Survey of Canada Paper 89-9, p. 517-523.

Bachu, S., Ramon, J.C., Villegas, M.E., and Underschultz, J.R., 1995, Geothermal regime and thermal history of the Llanos Basin, Columbia: AAPG Bulletin, v. 79, no. 1, p. 116-129.

Baker, C., Fristad, P., and Seim, P., 1987, Reservoir evaluation with MWD logs, paper B, in 28th annual logging symposium transactions: Society of Professional Well Log Analysts, 19 p. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 335-353.

Ball, S., Yee, S., Maranuk, C., and Bittar, M., 1995, Case histories and applications of a new slimhole MWD multiple-depth-of-investigation resistivity sensor, SPE/IADC-29435, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 891-902.

Ball, V., and Batzle, M., 1994, Contrasting stress dependence of compressional and shear velocities--implications for laboratory, logging, and seismic measurements, SL1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1065-1068.

Balling, N., and Decker, E.R., editors, 1995, Heat flow and thermal regimes of continental lithosphere: Tectonophysics, v. 244, no. 1-3.

Bang, J., Mjaaland, S., Solstad, A., Hendriks, P., and Jensen, L.K., 1994, Acoustic gas kick detection with wellhead sonar, SPE-28317, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 249-261.

Barber, T., Anderson, B., and Mowat, G., 1992, Using induction tools to identify magnetic formations and to determine relative magnetic susceptibility and dielectric constant, paper C, in 33rd annual logging symposium transactions: Society of Professional Well Log Analysts, 22 p. Later published in 1995: The Log Analyst, v. 36, no. 4, p. 16-26.

Baron, J.-P., Cariou, J., Unvois, J.-P., and Venet, V., 1993, Logging at the labs of the (ministry of) roads [in French]: Geologues, no. 100-101, p. 15-24.

Barton, C.A., and Zoback, M.D., 1994, Stress perturbations associated with active faults penetrated by boreholes; possible evidence for near-complete stress drop and a new technique for stress magnitude measurement: Journal of Geophysical Research, v. B99, no. 5, May 10, p. 9373-9390.

Basan, P., Hook J.R., and Hughes, K., Rathmell, J., and Thomas, D.C., 1988, Measuring porosity, saturation and permeability from cores--An appreciation of the difficulties: The Technical Review, v. 36, no. 4, October, p. 22-36. Later reprinted in

1991, in Canadian Heavy Oil Association reservoir handbook: Canadian Heavy Oil Association, Calgary, p. 49-66. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 190-204.

Basan, P., Howard, J., Lahann, R., Prichard, T., Attard, J., and Camden, D., 1994, Variations in NMR relaxivity and its relationship to pore size in sandstones from the South Morecambe Field, Irish Sea, paper AA, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 39 p.

Bashore, W.M., Langan, R.T., Tucker, K.E., and Griffith, P.J., 1995, Geostatistical integration of crosswell data for carbonate reservoir modeling, McElroy field, Texas, in Stouidt, E.L., and Harris, P.M., eds., Hydrocarbon reservoir characterization--geologic framework and flow unit modeling: SEPM [Society for Sedimentary Geology] Short Course Notes No. 34, p. 199-225.

Basin, Y.N., Martiyanov, I.A., and Petrosyan, L.G., 1995, Interpretation of pulsed neutron log: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 17 p.

Bay, A.M., Ablewhite, P.K., and Barnett, S., 1993, The importance of production logging in the monitoring of production in horizontal wells, paper 24, in 5th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 15 p.

Beck, G.F., 1995, Forward modeling of deep resistivity response in Norphlet wells, paper HHH, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Becquart, D., and Cornet, J.L., 1990, The response of original geophysical methods to specific problems in mining, hydrogeology, and geotechnical studies [in French]: Geologues, n. 92, p. 49-55.

Behsesht, C.D., 1992, Correlation of log response to production in the Austin Chalk: Texas A&M University, College Station, Texas, unpublished M.S. thesis, 82 p.

Belfield, W.C., and Sovich, J.P., 1995, Fracture statistics from horizontal wellbores: Journal of Canadian Petroleum Technology, v. 34, no. 6, p. 47-50.

Bennecke, W., 1994, The identification of basalt flow features from borehole television logs, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 107-120.

Benson, A.K., 1994, Environmental geophysics--locating and evaluating subsurface geology, geologic hazards, groundwater contamination, etc., in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 285-303.

Benson, A.K., 1994, Effects of shale and contaminants on (V_s/V_p) ratios in transversely-isotropic geology, in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 305-319.

Benson, R.C., and Yuhr, L., 1995, Geophysical methods for environmental assessment,

in Geoenvironment 2000, characterization, containment, remediation, and performance in environmental geotechnics, v. 1: American Society of Civil Engineers, New York, p. 57-76.

Bentsen, R.G., 1994, Effect of hydrodynamic forces on capillary pressure and relative permeability: *Transport in Porous Media*, v. 17, p. 121-132.

Berg, C.R., 1995, A simple, effective-medium model for water saturation in porous rocks: *Geophysics*, v. 60, no. 4, p. 1070-1080.

Bergt, D., 1995, Resistivity measurements at the bit provide real-time formation evaluation before invasion: *Journal of Petroleum Technology*, v., 47, no. 6, p. 492.

Berkowitz, B., and Farouq, S.M., 1994, An analysis of two automatic history-matching procedures for estimation of subsurface reservoir properties: *Israel Journal of Earth Sciences*, v. 43, p. 239-247.

Bertin, H., Graue, A., and Eilertsen, T., 1994, Two dimensional imaging of viscous and capillary effects in a dipping stratified heterogeneous media, paper SCA-9413, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 141-148.

Best, A., 1994, The effect of pressure on velocity anisotropy in reservoir sedimentary rocks [abs.], P108, and The effect of pressure on seismic velocity and attenuation in reservoir rocks [abs.], I042, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Best, A.I., and McCann, C., 1995, Seismic attenuation and pore-fluid viscosity in clay-rich reservoir sandstones: *Geophysics*, v. 60, no. 5, p. 1386-1397.

Best, M.E., and Katsube, T.J., 1995, Shale permeability and its significance in hydrocarbon exploration: *The Leading Edge*, v. 14, no. 3, p. 165-170.

Bigelow, E.L., 1995, The carbonate envelope, SPE-29515, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 653-664.

Bigelow, E.L., and Howell, E.P., 1995, Practical analysis of formation strength properties in both consolidated and unconsolidated reservoirs, paper TTT, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Bigio, D., Rike, A., Christensen, A., Collins, J., Hardman, D., Doremus, D., Tracy, P., Glass, G., Joergensen, N.B., and Stephens, D., 1994, Coiled tubing takes center stage: *Schlumberger Oilfield Review*, v. 6, no. 4, p. 9-23.

Bilinski, P.W., McGee, D.T., Pfeiffer, D.S., and Shew, R.D., 1995, Reservoir characterization of the "S" sand, Auger field, Garden Banks 426, 427, 470, and 471, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 75-93.

Bilodeau, B.J., 1995, Determining water saturation in diatomite using wireline logs, Lost Hills field, California, SPE-29653, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 369-382.

Bin Tajul Amar, Z.H.B.T., Egbogah, E.O., Bin Nurdin, A.R., 1995, Core-log integration for improved formation evaluation in the Dulang field, offshore peninsular Malaysia, SPE-29262, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 107-122.

Birchak, J.R., Matthews, R.G., Moake, G.L., and Schultz, W.E., 1993, Standoff and caliper measurements while drilling using a new formation-evaluation tool with three ultrasonic transducers, SPE-26494, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 793-806. Later published in 1994, in 2nd international symposium on well logging transactions: Society of Professional Well Log Analysts, Beijing Chapter, p. 181-187. Later published in 1995, as Moake, G.L., Birchak, J.R., Schultz, W.E., and Matthews, R.G.: SPE Drilling Completion, v. 10, no. 2, p. 104-111.

Blanche, J.P., Capelle, P., Marraud, J., and Ducasse, M.-L., 1994, Heimdal monitoring III--seismic monitoring, methods, and results, DP4.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 335-337.

Blanco, J., Breton, P., and Maocec, E., 1994, Heimdal monitoring II--comprehensive log-seismic calibration in using VSP data, DP4.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 331-334.

Blevins, D.M., Jr., and Fairborn, J.W., 1995, An application of crosswell tomography using a hydrophone receiver array to monitor steam migration in an unconsolidate, heavy-oil sandstone, West Coalinga field, California, SPE-29651, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 359-367.

Bloch, S., and Helmold, K.P., 1995, Approaches to predicting reservoir quality in sandstones: AAPG Bulletin, v. 79, no. 1, p. 97-115.

Blumentsev, A.M., Melchuk, B.Y., and Tsirulnikov, V.P., 1995, Evaluating the reliability and quality of log data interpretation: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 15 p.

Bodri, B., 1995, Hydrological disturbances of the conductive heat flow in the upper crust--problems of correcting measured heat flow data: Geothermics, v. 24, no. 2, p. 237-251.

Boebe, M., 1994, Rock Permeability determination by using a minipermeameter [in German]: Erdoel Erdgas Kohle, v. 110, no. 2, p. 58-61.

Boldreel, L.O., Harvey, P.K.H., Pezard, P., and Iturrino, G.J., 1995, Lithostratigraphy, fracturing, and fluid flow in the upper oceanic crust, chapter 27, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 313-319.

Bond, A.J., Palisch, T.T., and Oakley, R.M., 1995, New pressure tool development yields critical bottomhole data, SPE-27851, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 9-16.

Bonner, B.P., Roberts, J.J. and Schneberk, D.J., 1994, Determining water content and distribution in reservoir graywacke from the northeast Gysers with X-ray computed tomography: Geothermal Resources Council Transactions, v. 18, p. 305-310.

Boonen, P., Shook, R.A., and Brunsman, B.J., 1995, High-performance tools key to slimhole logging and perforating, part 4, Slimhole technology: Petroleum Engineer International, v. 67 no. 1, p. 43-52.

Borsaru, M., Ceravolo, C., and Tchen, T., 1995, The application of the low activity

borehole logging tool to the iron ore mining industry: *Nuclear Geophysics*, v. 9, no. 1, p. 55-62.

Boughriba, M., Walraevens, K., and Beeuwsaert, E., 1991, Geo-electrical prospection of the salinization in the Wester Scheldt Polders near Assenede (Belgium): *NWT [Natuurwetenschappelijk Tijdschrift]*, v. 73, no. 4, p. 137-146.

Boukadi, F.B.H., Watson, R., and Owolabi, O., 1992, The influence of reservoir rocks skeletal properties on ultimate oil recovery in radial-core waterfloods, paper 92-55, in 43rd annual technical meeting preprints, v. 2: *CIM Petroleum Society*, Calgary, Canada, 10 p.

Bouvier, L., and Maquignon, S., 1994, Effect of procedure on wettability index to water, paper SCA-9422, in *SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large*, p. 237-248.

Bowers, G.L., 1994, Pore pressure estimation from velocity data--accounting for overpressure mechanisms besides undercompaction, *IADC/SPE-27488*, in 1994 *IADC/SPE drilling conference proceedings: Society of Petroleum Engineering*, p. 515-530. Later published in 1995: *SPE Drilling Completion*, v. 10, no. 2, p. 89-95.

Bowers, M.C., 1993, The use of nuclear magnetic resonance, permeability, and diffusion to characterize the porous microstructure of sandstones: *University of South Carolina*, unpublished Ph.D. thesis, 166 p.

Bowers, M.C., Ehrlich, R., Howard, J.J., and Kenyon, W.E., 1995, Determination of porosity types from NMR data and their relationship to porosity types derived from thin section: *Journal of Petroleum Science and Engineering*, v. 13, p. 1-14.

Bram, K., Draxler, J., Hirschmann, G., Zoth, G., Hiron, S., and Kuhr, M., 1995, The KTB borehole--Germany's superdeep telescope into the Earths' crust: *Schlumberger Oilfield Review*, v. 7, no. 1, p. 4-22

Brami, J.B., 1991, Current calibration and quality control practices for selected measurement-while-drilling tools, *SPE-22540*, in *SPE annual technical conference and exhibition, v. delta, Drilling: Society of Petroleum Engineers*, p. 49-64. Later reprinted in 1993, in *Measurement while drilling: Society of Professional Well Log Analysts Reprint Series*, p. 431-446. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 11-26.

Brancolini, A., Mackenzie, I.S., Radaelli, F. and Rossi, E., 1995, X-ray CT evaluation of poorly consolidated, thin-bedded core, paper CCC, in 36th annual logging symposium transactions: *Society of Professional Well Log Analysts*, 8 p.

Bredehoeft, J.D., Wesley, J.B., and Fouch, T.D., 1994, Simulations of the origin of fluid pressure, fracture generation, and the movement of fluids in the Uinta Basin, Utah: *AAPG Bulletin*, v. 78, no. 11, p. 1729-1747.

Breitzke, M., and Spieb, V., 1993, An automated full waveform logging system for high-resolution P-wave profiles in marine sediments: *Marine Geophysical Researches*, v. 15, p. 297-321.

Bristow, J.F., Dove, R.E., Broglia, C., Hobart, M.A., Chabernaud, T.J., Tivy, J., 1994, Data report--geochemical logging results from Vanuatu, Sites 829, 830, 831, and 833, chapter 36, in *Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results*, v. 134: *Ocean Drilling Program, Texas A&M*

University, College Station, p. 625-643.

Bristow, J.F., Loftis, J.C., Harvey, P.K., and Lovell, M.A., 1994, Reservoir characterisation using nuclear geochemical logs, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 11 p.

Brooks, J.M., Anderson, A.L., Sassen, R., MacDonald, I.R., Kennicutt, M.C., II, and Guinasso, N.L., Jr., 1994, Hydrate occurrences in shallow subsurface cores from continental slope sediments, in International conference on natural gas hydrates proceedings: Annals of the New York Academy of Sciences, v. 715, p. 381-391.

Brooks, J.M., Field, M.E., and Kennicutt, M.C., II, 1991, Observations of gas hydrates in marine sediments, offshore northern California: Marine Geology, v. 96, p. 103-109.

Brown, G., Rees, H., and Toro, M., 1995, Using production-log data from horizontal wells, paper SS, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Brown, R.L., Parra, J.O., and Siefert, D., 1994, Reconciled surface and borehole measurements--a case history, IM1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 467-470.

Brumley, J., Kuhlman, R., Abass, H., Christiansen, C., and Nydahl, L., 1994, In-situ stress field determination and formation characterization--offshore Qatar case history, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 905-919.

Bryant, S., and Raikes, S., 1995, Prediction of elastic-wave velocities in sandstones using structural models: Geophysics, v. 60, no. 2, March-April, p. 437-446.

Bucheb, J.A., and Evans, H.B., 1992, Some applications of principal component analysis to well-log data [in Portuguese]: Boletim de Geosciences da Petrobras, v. 6, no. 1/2, p. 5-16. Later published in 1994 as, Some applications of methods used in electrofacies identification: The Log Analyst, v. 35, no. 1, January-February, p. 14-26.

Discussion and reply published in 1994: The Log Analyst, v. 35, no. 6, p. 12-15.

Bunch, A.W.H., and Dromgoole, P.W., 1995, Lithology and fluid prediction from seismic and well data: Petroleum Geoscience, v. 1, no. 1, p. 49-57.

Burkhardt, H., Honarmand, H., and Pribnow, D., 1995, Test measurements with a new thermal conductivity borehole tool: Tectonophysics, v. 244, no. 1-3, p. 161-165.

Bush, K., Chudy, S., Mirzwiniski, R., and Schuh, P., 1994, Carbon/oxygen logging --a case history, paper CC, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 16 p.

Butler, D.B., and Knight, R.J., 1995, The effect of steam quality on the electrical behavior of steam-flooded sands--a laboratory study: Geophysics, v. 60, no. 4, p. 998-1006.

Butler, R.M., 1994, Logging horizontal wells, chapter 3, in Horizontal wells for the recovery of oil, gas, and bitumen: Petroleum Society of CIM [Canadian Institute of Mining and Metallurgy], Calgary Section, p. 33-39.

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.

Butler, R.M., 1994, Producing naturally fractured reservoirs with horizontal wells,

chapter 9, in Horizontal wells for the recovery of oil, gas, and bitumen: Petroleum Society of CIM [Canadian Institute of Mining and Metallurgy], Calgary Section, p. 143-162.

Bykov, V.G., 1994, Vp/Vs ratio and physico-mechanical properties of rocks: Geology of the Pacific Ocean, v. 11, no. 1, p. 135-150.

Cade, C.A., Evans, I.J., and Bryant, S.L., 1994, Analysis of permeability controls--a new approach: Clay Minerals, v. 29, p. 491-501

Caillet, G., Deboaisne, R., Mathis, B., and Roux, C., 1994, The present-day stress regime in some deep structures of quadrant 25, offshore Norway: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 2, p. 381-390.

Camden, D., 1994, NMR theory made simple: Dialog [London Petrophysical Society Quarterly Newsletter], v. 2, no. 4, October, p. 4-5.

Campbell, B.S., 1994, Induced-polarization anomalies associated with hydrocarbon reservoirs--three case studies: Bulletin of the Association of Petroleum Geochemical Explorationists, v. 10, no. 1, p. 49-60.

Cannon, D.E., 1995, Shales--an alternate source for water resistivities, paper LLL, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Caramanica, F.P., and Hill, D.G., 1994, Spatial delineation of natural fractures and relation to gas production, SPE-29170, in SPE eastern regional conference proceedings: Society of Petroleum Engineers, p. 135-142.

Carati, C., and Maddinelli, G., 1994, NMR spectroscopy and relaxation--powerful tools for estimating residual fluids and petrophysical parameters, paper K, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 12 p.

Case, C.R., Flaum, C., Wraight, P.D., and DasGupta, T., 1995, Improved porosity estimation in invaded gas reservoirs using a pulsed neutron porosity device, paper X, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 9 p.

Castagna, J.P., Han, D-H., and Batzle, M.L., 1995, Issues in rock physics and implications for DHI [direct hydrocarbon indicator] interpretation: The Leading Edge, v. 14, no. 8, p. 883-885.

Castagna, J.P., and Smith, S.W., 1994, Comparison of AVO indicators--a modeling study: Geophysics, v. 59, no. 12, p. 1849-1855.

Castrejon-Vacio, F., and Porres-Luna, A.A., 1994, Use of seismic attributes in geological description of carbonate rocks, SPE-28673, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 49-60.

Causin, E., and Bona, N., 1994, In-situ wettability determination--field data analysis, SPE-28825, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 189-198.

Chabernaud, T.J., 1994, High-resolution electrical imaging in the New Hebrides Island arc--structural analysis and stress studies, chapter 34, in Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results,

v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 591-606.

Chandler, R., 1995, NML hardware history and MRIL, chapter 6, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Chandu, S.N., and Rao, C.S., 1992, Identification mineralogy and gas using crossplots in Bombay High offshore area: Indian Journal of Earth Sciences, v. 19, no. 2-3, p. 114-127.

Chapellier, D., 1993, Logs and hydrogeology [in French]: Geologues, no. 100-101, p. 7-10.

Chapman, D.S., 1993, Repeat temperature measurements in borehole GC-1, northwestern Utah--towards isolating a climate-change signal in borehole temperature profiles: Geophysical Research Letters, v. 20, no. 8, p. 1891-1894.

Chardac, J-L., and El-Sayed, H., 1995, Applications of a new multi-resistivity and imaging tool in the Middle East, SPE-29838, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 589-596.

Charlson, G.S., DeRuiter, R.A., Spence, A.P., and Warner, H.R., Jr., 1994, Application of oil-base mud pressure coring to the determination of in-situ water saturations, SPE-28595, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 327-334.

Chawathe, A., 1994, The application of Kohonen type self organization algorithm to formation evaluation, SPE-29179, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 213-223.

Chawathe, A., and Sharma, M.P., 1991, Effects of temperature on the permeability of porous media, in Eaton, R.R., Kaviany, M., Sharma, M.P., Vafai, K., and Udell, K.S., eds., Multiphase transport in porous media--1991: The American Society of Mechanical Engineers, FED, v. 122, p. 117-123.

Cheli, E., and Brancato, C., 1995, Woodie--a tool to support overpressure detection, SPE-29346, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 135-142.

Chemali, R., Heysse, D., Merchant, G.A. and Jackson, C., 1995, Comparisons of wireline and LWD resistivity highlight resistivity frequency dispersion in sedimentary formations, paper F, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Chen, D.S., Fang, J.H., Kortright, M.E., and Chen, H.C., 1993, Novel approaches to the determination of Archie parameters, part I--simplex method, SPE-26287: Society of Petroleum Engineers, unsolicited paper, 18 p. Part II--fuzzy regression analysis, SPE-26288: Society of Petroleum Engineers, unsolicited paper, 22 p. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 39-52.

Chen, S., Liaw, H.K., and Watson, A.T., Fluid saturation-dependent nuclear magnetic resonance spin-lattice relaxation in porous media and pore structure analysis, : Journal of Applied Physics, v. 74, no. 3, p. 1473-1479.

Chen, S., Yao, X., Qiao, J., and Watson, A.T., 1994, Characterization of fractures and multiphase flow in fractured permeable rocks using NMR imaging techniques, paper SCA-9402, in SCA international symposium proceedings: Society of Professional Well

Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 17-28.

Chen, Z.A., and Ruth, D.W., 1994, Centrifuge capillary pressure data interpretation: gravity degradation aspect consideration, paper SCA-9425, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 275-284.

Chisholm, T.J., 1990, Climate change inferred from borehole temperatures; western Utah: University of Utah, Salt Lake City, 94 p.

Christie, D.M., and Langmuir, C.H., 1994, Automated XY plots from Microsoft Excel: Computers and Geosciences, v. 20, no 1, p. 47-52.

Chudy, S., McIntyre, G., and Schuh, 12 p., 1995, Cased hole acoustic logging--a solution to a problem, paper I, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Cicerone, R.D., 1991, Detection and characterization of in situ fractures in the earth from vertical seismic profiling data: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Cicerone, R.D., and Toksoz, M.N., 1995, Fracture characterization from vertical seismic profiling data: Journal of Geophysical Research, v. 100, no. B3, March 10, p. 4131-4148.

Cipolla, C.L., Liu, D., and Kyte, D.G., 1994, Practical application of in-situ stress profiles, SPE-28607, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 487-499.

Clauser, C., and Mareschal, J.-C., 1995, Ground temperature history in central Europe from borehole temperature data: Geophysical Journal International, v. 121, p. 805-817.

Clemenceau, G.R., 1995, Ram/Powell field--Viosca Knoll block 912, deepwater Gulf of Mexico, in Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20, p. 95-129.

Clerke, E.A., Williams, K.W., and Pearce, L.A., 1993, The DAK formation evaluation model for the Permian Basin Clearfork, SPE-26264: Society of Petroleum Engineers, unsolicited manuscript, 50 p. Later published in 1994: The Log Analyst, v. 36, no. 1, p. 10-27.

Coates, G.R., Miller, D.L., Mardon, D., and Gardner, J.S., 1995, Applying log measurements of restricted diffusion and T2 to formation evaluation, paper P, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Coles, M.E., Spanne, P.E., Muegge, L., and Jones, K.W., 1994, Computed microtomography of reservoir core samples, paper SCA-9401, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 9-16.

Collett, T.S., 1993, Natural gas production from Arctic gas hydrates, in Howell, D.G., ed., The future of energy gases: U.S. Geological Survey Professional Paper 1570, p. 299-311.

Collett, T.S., 1994, Permafrost-associated gas hydrate accumulations, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 247-269.

Collier, H.A., 1993, Borehole geophysical techniques for determining the water quality and reservoir parameters of fresh and saline water aquifers in Texas: University of Texas at Dallas, unpublished Ph.D. dissertation, 695 p. Also published in 1993: Texas Water Development Board Report 343, 2 volumes, variously paginated.

Coment Logan Group, 1990, Bulk volume and water saturation analysis for permafrost and sub-permafrost section of 5 wells, Beaufort Sea: Geological Survey of Canada Open-File Report No. 2228, 4 p.

Condessa, L.G., 1995, Hydrocarbon identification in fresh-water bearing reservoirs using dynamic Poisson's ratio--a case study, paper K, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Coope, D.F., 1983, Gamma ray measurement-while-drilling: *The Log Analyst*, v. 24, no. 1, p. 3-9. Later reprinted in 1993, in *Measurement while drilling: Society of Professional Well Log Analysts Reprint Series*, p. 33-40. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 139-145.

Coope, D.F., 1994, Petrophysical applications of NMR in the North Sea, paper Z, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 12 p. Abridged version published also published in 1994 as, *Petrophysical applications of NMR: Dialog [London Petrophysical Society Quarterly Newsletter]*, v. 2, no. 4, October, p. 8-10.

Cooper, P., 1995, Milankovitch cycles from Fourier analysis of logs from Site 865 and 866, chapter 20, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas*, p. 317-327.

Cooper, P., Arnaud, H.M., and Flood, P.G., 1995, Formation Microscanner logging responses to lithology in guyot carbonate platforms and their implications--sites 865 and 866, chapter 21, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas*, p. 329-372.

Coppens, F., and Mari, J.L., 1995, Application of the intercept time method to full wave form acoustic data: *First Break*, v. 13, no. 1, p. 11-20.

Corbett, P.W.M., and Jensen, J.L., 1993, Quantification of variability in laminated sediments--a role for the probe permeameter in improved reservoir characterization, in North, C.P., and Prosser, D.J., eds., *Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73*, p. 433-442.

Corbett, P.W.M., Stromberg, S.G., Brenchley, P.J., and Geehan, G., 1994, Laminated geometries in the fine grained shallow marine sequences--core data from the Rannoch Formation (North Sea) and outcrop data from the Kennilworth Member (Utah, USA) and the Bencliff Grit (Dorset, UK): *Sedimentology*, v. 41, p. 729-745.

Coshell, L., McIver, R.G., and Chang, R., 1994, X-ray computed tomography of Australian oil shales--non-destructive visualization and density determination: *Fuel*, v. 73, no. 8, p. 1317-1321.

Coudert, L., Frappa, M., Arias, R., 1994, A statistical method for litho-facies identification: *Journal of Applied Geophysics*, v. 32, p. 257-267.

Coulombe, C.A., 1993, Amplitude-versus-offset analysis using vertical seismic profiling

and well-log data: Calgary University, Alberta, Canada, unpublished MS thesis, 168 p.

Cowan, G., 1993, Identification and significance of aeolian deposits within the dominantly fluvial Sherwood Sandstone Group of the East Irish Sea basin UK, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 231-245.

Cowan, P., and Locke, J., 1994, The accurate determination of vertical resolution of gamma-density tools, paper P, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 25 p.

Cowgill, S.M., Meredith, P.G., Murrell, A.F., Brereton, N.R., 1994, Heterogeneous stress orientations in the North Sea basin, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 963-970.

Crampin, S., 1993, Shear-wave anisotropy and fracture criticality--the potential for monitoring hydrocarbon production, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1516-1521.

Crampin, S., and Booth, D.C., 1989, Shear-wave splitting showing hydraulic dilation of pre-existing joints in granite: Scientific Drilling, v. 1, no. 1, p. 21-26.

Crawford, B., Smart, B., Main, I., and Dolan, S., 1994, The micromechanics of deformation under true 3-d stress anisotropy from permeability-microseismics experimentation, paper G, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 16 p.

Crocker, H., 1991, An improved wireline formation fluid sampler and tester, SPE-22971, in SPE Asia-Pacific conference proceedings: Society of Petroleum Engineers, p. 237-244.

Crouse, P.C., 1991, Reservoir characterization for horizontal wells, paper 34, in 3rd World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 15 p.

Crowder, R.E., Pedler, W.H., Seracuse, J.M., Myers, N.J., Daniel, J., and Haines, L., 1995, Assessment of geological and hydrological features in a basaltic environment using borehole geophysical techniques, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 551-557.

Cuddy, S., Day, S., Page, G., and Fletcher, S., 1994, The observed effects of high deviation wells on porosity measurements--a discussion of potential explanations, paper T, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 22 p.

Cunningham, A.B., Jay, K.L., and Opstad, E., 1990, Applications of MWD technology in nonconventional wells, Prudhoe Bay, North Slope Alaska, paper D, in 31st annual logging symposium transactions: Society of Professional Well Log Analysts, 24 p. Later published in 1992: The Log Analyst, v. 32, no. 1, January-February, p. 13-24. Also published in 1992 in abridged form as, Unconventional Prudhoe Bay wells benefit from MWD use: World Oil, v. 213, no. 5, p. 43-48, 52. Later reprinted in 1993, in Measurement while drilling: Society of Professional Well Log Analysts Reprint Series, p. 473-496. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 207-216.

Curwen, D.W., and Molaro, C., 1995, Permeability from magnetic resonance imaging logs, paper GG, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Czubek, J.A., Drozdowicz, K., Gabanska, B., Igielski, A., Krynicka, E., and Woznicka, U., 1995, Sigma-Sa laboratory measurements for geological samples (by pulsed method), paper R, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Daev, D.S., Zinchenko, V.S., Talalov, A.D., Andrieux, P., Camerlynck, C., Rakotondrasoa, G., 1993, Dielectric permittivity logging applied to hydrology and civil engineering [in French]: Geologues, no. 100-101, p. 11-14.

Dake, L.P., 1994, Application of the repeat formation tester, chapter 2, in The practice of reservoir engineering: Elsevier, Amsterdam, Developments in Petroleum Science, No. 36, p. 58-67..

Dake, L.P., 1994, Oil-well testing, chapter 4, in The practice of reservoir engineering: Elsevier, Amsterdam, Developments in Petroleum Science, No. 36, p. 137-154.

Dale, M.R., 1992, Assessing the relationship of pore geometry to petrophysical properties and well log data from the Lower Tuscaloosa B Member, St Helena's Parish, Louisiana: University of Southwestern Louisiana, Lafayette, unpublished MS thesis, 124 p.

Damsleth, E., and Tjolsen, C.B., 1992, Scale consistency from cores to geological description, SPE-24700, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 377-385. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 295-299.

Dangerfield, J., Knight, I., and Farrell, H., 1992, Characterization of faulting and fracturing in Ekofisk field from seismic, core, and log data, in Larsen, R.M., Brekke, H., Larsen, B.T., and Talleraas, E., eds., Structural and tectonic modelling and its application to petroleum geology: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication No. 1, p. 397-407.

Dart, R.L., and Swolfs, H.S., 1992, Subparallel faults and horizontal-stress orientations--an evaluation of in-situ stresses inferred from elliptical wellbore enlargements, in Larsen, R.M., Brekke, H., Larsen, B.T., and Talleraas, E., eds., Structural and tectonic modelling and its application to petroleum geology: Elsevier, Amsterdam, Norwegian Petroleum Society Special Publication No. 1, p. 519-529.

Davidson, J.A., Morriss, S.L., and Podio, A.L., 1992, Estimates of formation sound speed from ultrasonic reflections, SPE-24688, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 287-298. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 72-78.

Davis, E.E., and Becker, K., 1994, Formation temperatures and pressures in a sedimented rift hydrothermal system--10 months of CORK observations, holes 857D and 858G, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 139: Ocean Drilling Program, Texas A&M University, College Station, p. 649-666.

Davis, E.E., and Wang, K., 1994, Present and past temperatures of sediments at Site 857, Middle Valley, northern Juan de Fuca ridge, chapter 35, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 139: Ocean Drilling Program, Texas A&M University, College Station, p. 565-596.

Davis, E.R., Zhu, D., and Hill, A.D., 1995, Interpretation of fracture height from temperature logs--the effect of wellbore/fracture separation, SPE-29588, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 415-426. Also published in 1995, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 981-992..

de Kuijper, A., Sandor, R.K.J., Hofman, J.P., Koelman, J.M.V.A., Hofstra, P. and deWaal, J.A., 1995, Electrical conductivities in oil-bearing shaly sand accurately described with the SATORI saturation model, paper MM, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

de Lima, O.A.L., 1994, Hydraulic conductivity of shaly sands, SL4.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1159-1162.

de Lima, O.A.L., and Dalcin, C.L.R., 1995, Application of a new shaly sand model for interpreting resistivity and dielectric log measurements: The Log Analyst, v. 36, no. 2, p. 29-41.

De Naurois, H., Last, N.C., Husband, F.J., and Palstra, M., 1995, Improving drilling performance in the Cusiana and Cupiagua fields based on measurement and interpretation of hole deterioration using time-lapsed 2 MHz electromagnetic caliper devices, paper WW, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

de Waal, J.A., Smits, R.M.M., de Graaf, J.D., and Schipper, B.A., 1989, Measurement and evaluation of resistivity-index curves, paper II, in 30th annual logging symposium transactions: Society of Professional Well Log Analysts, ? p. Later published in 1991: The Log Analyst, v. 32, no. 5, p. 583-595. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 81-83.

De, G.S., Winsterstein, D.F., and Meadows, M.A., 1994, Comparison of P- and S-wave velocities and Q's from VSP and sonic log data: Geophysics, v. 59, no. 10, p. 1512-1529.

Deans, H.A., and Mut, A.D., 1994, Chemical tracer studies to determine Sw, Sadlerochit reservoir, PBU, SPE-29591, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 291-301.

Decker, E.R., 1995, Thermal regimes of the southern Rocky Mountains and Wyoming basin in Colorado and Wyoming in the United States: Tectonophysics, v. 244, no. 1-3, p. 75-84.

Delaune, P., 1994, A new quantitative technique to evaluate gas shows during mud logging: In Focus--Tight Gas Sands [GRI], v. 10, no. 1, p. 24-34.

Delaune, P.L., Wright, A.C., and Hanson, S.A., 1994, New quantitative technique to evaluate gas shows during mud logging operations, annual report: Gas Research

Institute Report No. 94/0278, 137 p.

Delsol, D., ed., 1995, Well Evaluation Conference Algeria 1995 [English and French]: Schlumberger, Document No. M-090295, variously paginated. Also published in CD-ROM format.

Deming, D., 1994, Estimation of the thermal conductivity anisotropy of rock with application to the determination of terrestrial heat flow: *Journal of Geophysical Research*, v. 99, no., B11, p. 22,087-22,091.

Desbrandes, R., and Xu, H., 1994, A new concept in wireline formation testing--extended drawdown: *The Log Analyst*, v. 35, no. 6, p. 37-46.

Dillon, P.B., 1994, Acoustic-log resolution from VSP data [abs.]?, G027, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Dillon, W.P., Lee, M.W., and Coleman, D.F., 1994, Identification of marine hydrates in situ and their distribution off the Atlantic coast of the United States, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: *Annals of the New York Academy of Science*, v. 715, p. 364-380.

Dillon, W.P., Lee, M.W., Fehlhaber, K., and Coleman, D.F., 1993, Gas hydrates on the Atlantic continental margin of the United States--controls and concentration, in Howell, D.G., ed., *The future of energy gases: U.S. Geological Survey Professional Paper 1570*, p. 313-330.

Disiena, J.P., and Hilterman, F.J., 1994, Density estimation from the sonic log--a case study, SL2.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1096-1099.

Dobb, A., Robertson, G., Reilly, J.M., and Purpich, A.J., 1995, The use of well seismic profiles and LWD to steer a horizontal well: *Petroleum Geoscience*, v. 1, no. 1, p. 3-11.

Dobrynin, V.M., Chernoglazov, V.N., and Gorodnov, A.V., 1995, Determination of oil saturation by the multiwave sonic log: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 13 p.

Dodge, W.S., 1994, Quantifying HIREs nuclear tool resolution in thinly bedded reservoirs using time series analysis, SPE-28797, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 527-536.

Dodge, W.S., Shafer, J.L., and Guzman-Garcia, A.G., 1995, Core and log NMR measurements of an iron-rich glauconitic sandstone reservoir, paper O, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Domenico, N., 1995, Poisson's ratio--an interdisciplinary link?: *The Leading Edge*, v. 14, no. 9, p. 983-986

Doublet, L.E., Pande, P.K., Clark, M.B., Nevans, J.W., and Blasingame, T.A., 1995, An integrated geologic and engineering reservoir characterization of the North Robertson (Clearfork) unit--a case study, part 1, SPE-29594, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 465-491.

Doughty, D.A., and Tomutsa, L., 1993, Investigation of wettability by NMR microscopy and spin-lattice relaxation: U.S. Department of Energy Report NIPER-720, 11 p.

Dull, D.W., 1994, Geostatistical method to improve permeability estimates--application to the Mabee field, Andrews and Martin Counties, Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 23-33.

Durand, C., 1994, Distribution of clays in sandstones by image analysis--quantification, representativity and effects on petrophysical properties, paper SCA-9414, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 149-162.

Durandea, M., El-Emam, M., Anis, A.-H., and Fanti, G., 1995, Successful field evaluation of the efficiency of a gas gravity drainage process by applying recent developments in sponge coring technique in a major oil field, SPE-29809, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 367-377.

Durandea, M., El-Emam, M., Anis, A.-H., and Fanti, G., 1995, Successful field evaluation of the efficiency of a gas gravity drainage process by applying recent developments in sponge coring techniques in a major oil field, SPE-29809, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 367-377.

Durrani, A.J., Escovedo, B.M., Ordemann, B., Bickley, J.A., Tepper, B.J., and Simon, J.M., 1992, The rejuvenation of the 30-year-old McAllen Ranch field--an application of cross-functional team management, SPE-24872, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir engineering: Society of Petroleum Engineers, p. 67-79. Later published in 1994: Journal of Petroleum Technology, v. 46, no. 12, p. 1065-1072.

Duval, B.C., Imbert, P., Grosjean, Y., and Lefort, J.J., 1995, Contribution of qualitative log analysis to reservoir management recent developments and case histories, paper KKK, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Dvorkin, J., Mavko, G., and Nur, A., 1991, The effect of cementation on the elastic properties of granular material: Mechanics of Materials, v. 12, p. 207-217.

Dvorkin, J., Yin, H., and Knight, R., 1994, Seismic detection of residual contaminants, NS2.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 584-586.

Dyke, C.G., Wu, B., and Milton-Taylor, D., 1992, Advances in characterising natural fracture permeability from mud log data, SPE-25022, in European petroleum conference proceedings, v. 2: Society of Petroleum Engineers, 63-73. Later published in 1995: SPE Formation Evaluation, v. 10, no. 3, p. 160-166.

Dziuba, T.T., and Sopko, L.W., 1995, Reconciliation of water production from resistive carbonates, western Canada, paper MMM, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Ehrlich, R., Crabtree, S.J., Horkowitz, K.O., and Horkowitz, J.P., 1991, Petrography and reservoir physics, part 1--objective classification of reservoir porosity: AAPG Bulletin, v. 75, no. 10, p. 1547-1563. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 5-20.

Eide, E., Brinkhorst, J., Volker, H., Burge, P., and Ewen, R.L., 1994, Further advances

in coiled-tubing drilling, SPE-28866, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 11-19. Later published in 1995: Journal of Petroleum Technology, v. 47, no. 5, p. 403-408.

El-Khatib, N., 1995, Development of a modified capillary pressure J-function, SPE-29890, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 547-562.:

Elashahab, B.M., Jing, X.D. and Archer, J.S., 1995, The effects of temperature and wettability on resistivity index measurements on rock samples, paper AAA, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Elashahab, B.M., Jing, X.D., and Archer, J.S., 1995, Resistivity index and capillary pressure hysteresis for rock samples of different wettability characteristics, SPE-29888, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 519-529.:

Eldoy, E., Rafdal, J., and Dodson, T., 1995, Formation pressure determination in high pressure high temperature wells in the Central Graben Area of the North Sea, paper EEE, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Ellis, D., Howard, J., Flaum, C., McKeon, D., Scott, H., Serra, O., Simmons, G., 1988, Mineral logging parameters--Nuclear and acoustic: The Technical Review, v. 36, no. 1, p. 38-52. Reprinted in 1990, in Foster, N.H., and Beaumont, E.A., eds., Formation evaluation I--log evaluation: AAPG Treatise of Petroleum Geology Reprint Series No. 16, p. 460-474. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 52-66.

Ellis, D.V., Perchonok, R.A., Scott, H.D., and Stoller, C., 1995, Adapting wireline logging tools for environmental logging applications, paper C, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Enever, J.R., Bocking, M.A., and Clark, I.H., 1994, The application of in-situ stress measurement and numerical stress analysis to coalbed methane exploration in Australia, SPE-28780, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 373-381.

Enever, J.R., Pattison, C.I., McWatters, R.H., and Clark, I.H., 1994, The relationship between in-situ stress and reservoir permeability as a component in developing an exploration strategy for coalbed methane in Australia, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 163-171.

Englezos, P. and Hatrikiriakos, S.G., 1994, Environmental aspects of clathrate hydrates, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 270-282.

Enikeyeva, F.K., Khamatdinov, R.T., Pantjukhin, V.A., Velizhanin, V.A., Yumatov, A.Y., and Zhuravlev, B.K., 1995, Computer modelling and log data processing for lithology and porosity determination: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 12 p.

Esmersoy, C., Kane, M., Boyd, A., and Denoo, S., 1995, Fracture and stress evaluation using dipole-shear anisotropy logs, paper J, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Ettensohn, F.R., and Hendricks, R.T., 1993, Development of a core-logging manual for the eastern oil and gas shales, in Eastern oil shale symposium proceedings: Institute for Mining and Minerals Research, University of Kentucky, Lexington, p.287-293.

Eubanks, D., 1994, Application of borehole imaging in geologic studies, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 111-118.

Evans, D.G., Anderson, W.P., Jr., and Tsang, C-F., 1992, Borehole fluid experiments near salt contamination sites in Maine, in Focus conference on eastern regional ground water issues proceedings: Ground Water Management, Book 13, p. 797-807.

Fagin, R., and Hutchinson, M., 1994, MWD advances reduce drilling costs: American Oil and Gas Reporter, v. 37, no. 10, p. 41-45..

Faivre, O., and Catala, G., 1995, Dip estimation from azimuthal laterolog tools, paper CC, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Farnan, R.A., Piggin, R.H., and Black, A.J., 1994, Use of deep density borehole gravimeter to establish fluid saturation changes in a North Sea reservoir [abs.], P021, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p. Also published in 1994 as, Deep density borehole gravimeter measurements of fluid saturations in a North Sea reservoir compared to fluid saturations measured with resistivity logs, paper V, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 2 p.

Farquhar, R.A., Somerville, J.M., and Smart, B.G.D., 1994, Porosity as a geomechanical indicator--an application of core and log data and rock mechanics, SPE-28853, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 481-489.

Fatti, J.L., Smith, G.C., Vail, P.J., Strauss, P.J., and Levitt, P.R., 1994, Detection of gas in sandstone reservoirs using AVO analysis--a 3-D seismic case history using the Geostack technique: Geophysics, v. 59, no. 9, p. 1362-1376.

Faye, RE., and Smith, W.G., 1994, Relations of borehole resistivity to the horizontal hydraulic conductivity and dissolved-solids concentration in water of clastic coastal plain aquifers in the southeastern United States: U.S. Geological Survey Water-Supply Paper 2414, 33 p.

Fertl, W., Chilingarian, G.V., and Donaldson, E.C., 1995, Surveillance technology to detect and monitor compaction and subsidence effects, appendix D, in Chilingarian, G.V., Donaldson, E.C., and Yen, T.F., eds., Subsidence due to fluid withdrawal: Elsevier Science, Amsterdam, 439-451.

Fett, T., Bryant, I., and Greenstreet, C., 1994, Integration of state-of-the-art wireline reservoir deliniation devices with core data from an offset well to optimize reservoir management--Maui field, New Zealand, in New Zealand petroleum conference proceedings: Petroleum Exploration Association of New Zealand, p. 231-239.

Fischer, J.A., Fischer, J.J., and Bullwinkel, R.J., 1994, Results of a downhole Formation Microscanner study in a Juro-Triassic-aged sedimentary deposit (Passaic Formation), in Link, P.K., ed., Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering, p. 359-370.

Fleury, M., Lenormand, R., and Deflandre, F., 1994, Interpretation of centrifuge data using local saturation, paper SCA-9428, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 305-.

Flolo, L.H., 1994, Residual oil saturation after gas-flooding--A TDT-P case study, paper BB, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 20 p.

Fluery, M., and Forbes, 12 p., 1995, Experimental evidence of radial effects on centrifuge capillary pressure curves, paper EE, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Forsans, T.M., and Schmitt, L., 1994, Capillary forces--the neglected factor in shale instability studies?, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 71-84.

Forster, A., and Merriam, D.F., 1993, Geothermal field interpretation in south-central Kansas for parts of the Nemaha Anticline and flanking Cherokee and Sedgwick basins: Basin Research, v. 5, p. 213-234.

Frass, M., Coll, C., Gamero, H., and Bryant, I., 1995, Characterization of thinly-bedded reservoirs--a new approach in a sparse logged area, paper DDD, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 7 p.

Fyllin, A., 1994, The application of logs in evaluating oil saturation after water flooding in two major North Sea oil fields, paper EE, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 22 p.

Gable, R., and Vasseur, G., 1991, Geothermal studies on three GPF sites [in French]: Bulletin de la Societe Geologique de France, v. 162, no. 5, p. 907-912.

Gable, R., Millon, R., and Tabbagh, A., 1992, Magnetic logging in the Sancerre-Couy borehole [in French], in Chantraine, J., ed, Geologie profonde de la France; forage scientifique de Sancerre-Couy; synthese des etudes 1986-1992: Geologie de la France, no. 3-4, p. 171-182.

Gable, R., Morin, R., Becker, K., and Pezard, P., 1995, Heat flow in the upper part of the oceanic crust--synthesis of in-situ temperature measurements in hole 504B, chapter 28, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 321-324.

Gaither, B.E., 1994, Some considerations in the application of wireline logging to environmental investigations: Gulf Coast Association of Geological Societies Transactions, v. 44, p. 237-244.

Gallagher, J.G., and Hoolver, G.M., 1994, A case study on using geostatistical data integration for porosity prediction in a complex carbonate reservoir in west Texas,

DP2.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 277-280.

Galle, C., 1994, Neutron porosity logging and core porosity measurements in the Beauvoir granite, Massif Central Range, France: *Journal of Applied Geophysics*, v. 32, p. 125-137.

Galloway, R.B., 1995, Alpha-particle counting of a sediment core from Lac du Bouchet: *Nuclear Geophysics*, v. 9, no. 1, p. 63-71.

Gamble, I.J.A., Buller, D.C., and Sinock, K.J., 1994, Reconciliation of field observations in a North Slope reservoir through pore fluid microvisualisations, SPE-28855, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 507-519.

Gamboa, P., Reis, J., and Morriss, S., 1994, Development of a log-based petrophysical model for a complex dolomitic reservoir, in Gibbs, J.F., ed., *Synergy, equals energy--teams, tools, and techniques*: West Texas Geological Society, Fall Symposium, p. 101-109.

Garcia, G., 1991, Inversion of a lateral log using neural networks: Colorado School of Mines, Golden, 96 p.

Garrouch, A., 1993, Dielectric properties of fluid-saturated rocks: University of Texas at Austin, unpublished Ph.D thesis, 212 p.

Garrouch, A.A., and Lababidi, H.M.S., 1995, An inverted petrophysical model for shale sands: *In Situ*, v. 19, no. 2, p. 125-153.

Gatto, H., and Draxler, J.K., 1993, Quantitative determination of elements and mineralogy in crystalline rocks [in French]: *Geologues*, no. 100-101, p. 74-78.

Gauchet, R., 1994, Effects of core sample dimensions and orientation on two-phase flow properties determination, paper SCA-9412, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 131-140.

Gawthorpe, R.L., Collier, R.E.L., Alexander, J., Bridge, J.S., and Leeder, M.R., 1993, Ground penetrating radar--application to sandbody geometry and heterogeneity studies, in North, C.P., and Prosser, D.J., eds., *Characterization of fluvial and aeolian reservoirs*: Geological Society [London] Special Publication No. 73, p. 421-432.

Gazaniol, D., Forsans, T., Boisson, M.J.F., and Piau, J-M., 1994, Wellbore failure mechanisms in shales--prediction and prevention, SPE-28851, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 459-471

Geldon, A.L., 1993, Preliminary hydrogeologic assessment of boreholes UE-25c #1, UE-25c #2, and UE-25c #3, Yucca Mountain, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 92-4016, 85 p.

Gendzwill, D.J., 1993, Seismic velocity, fracture density and anisotropy of some Manitoba limestones: *Canadian Journal of Exploration Geophysics*, v. 29, no. 1, p. 153-162.

Genter, A., and Traineau, H., 1993, Deep geothermics in the Soultz granites [in French]: *Geologues*, no. 100-101, p. 67-73.

Georgi, D.T., editor, 1995, Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts,

variously paginated.

Georgi, D.T., Zhang, J.C. Huang, Y.Y., Chandler, R.N. and Prammer, M.G., 1995, Vertical resolution and signal-to-noise characteristics of nuclear magnetic resonance imaging logs, paper OOO, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Gidman, J., Conner, F.J., and Fisher, D.J., 1994, Deciphering core and log porosity differences and evaluating the scale dependence of core analyses in a complex lithology, paper SCA-9411, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 121-130.

Ginsburg, G.D., and Soloviev, V.A., 1994, Russian research on submarine gas hydrate geology, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 484-486.

Ginsburg, G.D., and Soloviev, V.A., 1995, Submarine gas hydrate estimation--theoretical and empirical approaches, OTC-7693, in 27th annual offshore technology conference proceedings, v. 1, Geology, earth sciences and environmental factors: Society of Petroleum Engineers, p. 513-518.

Gladden, L.F., 1994, Nuclear magnetic resonance in chemical engineering--principles and applications: Chemical Engineering Science, v. 49, no. 20, p. 3339-3408.

Goncalves, C.A., Harvey, P.K., and Lovell, M.A., 1995, Application of a multilayer neural network and statistical techniques in formation characterisation, paper FF, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Gonfalini, M., and Ponzi, M., 1995, A knowledge based system for log quality control, paper RRR, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Goode, P.A., Sibbit, A.M., and Looi, S.Y., 1994, Reservoir saturation determination in the Eromanga Basin using carbon/oxygen logging, SPE-28798, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 537-551.

Gorell, S.B., 1995, Using geostatistics to aid in reservoir characterization: The Leading Edge, v. 14, no. 9, p. 967-974.

Grant, N.T., and Sloan, H., 1994, Plotting log data from deviated and horizontal wells--a spreadsheet-based method: First Break, v. 12, no. 12, p. 597-604.

Grattoni, C.A., and Dawe, R.A., 1994, Electrical resistivity anisotropy due to pore scale structure, paper SCA-9416, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 173-182.

Grattoni, C.A., and Dawe, R.A., 1995, Influence of fluid distribution upon electrical resistivity of partially saturated media, paper II, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Grauls, D.J., and Baleix, J.M., 1994, Role of overpressures and in situ stresses in fault-controlled hydrocarbon migration--a case study: Marine and Petroleum Geology, v. 11, no. 6, p. 734-741.

Grauls, D., Dunard, J.P., and Beaufort, D., 1995, Predicting abnormal pressure from 2-D seismic velocity modeling, OTC-7692, in 27th annual offshore technology conference

proceedings, v. 1, Geology, earth sciences and environmental factors: Society of Petroleum Engineers, p. 525-534.

Gray, I., McElhinney, G., and Bamberger, R., 1994, LWD measurements--enhancement of the horizontal well drilling process, paper R, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 15 p.

Gray-Stephens, D., Cook, J.M., and Sheppard, M.C., 1991, Influence of pore pressure on drilling response in hard shales, SPE-23414: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1994: SPE Drilling and Completion, v. 9, no. 4, p. 263-270.

Greder, H.N., Mus, E.A., Veillerette, A.M. and Pellerin, F.M., 1995, Derivation of a core permeability log and extrapolation to uncored intervals, paper KK, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Grosswig, S., Hurtig, E., and Kuhn, K., in press, Fiber optic temperature sensing--a new tool for temperature measurements in boreholes: Geophysics, v.

Guest, K., 1990, The use of core-derived quantitative mineralogical data to improve formation evaluation, in Worthington, P.F., ed., Advances in core evaluation, accuracy, and precision in reserves estimation [Reviewed proceedings of the first Society of Core Analysts European core analysis symposium, May 21-23, London, UK]: Gordon and Breach Science Publishers, New York, p. 187-209. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 21-43.

Gurevich, A.E., and Chilingar, G.V., 1995, Abnormal pressures in Azerbaijan--a brief critical review and recommendations: Journal of Petroleum Science and Engineering, v. 13, p. 125-135.

Gurevich, A.E., Chilingar, G.V., and Aminzadeh, F., 1994, Origin of the formation fluid pressure distribution and ways of improving pressure prediction methods: Journal of Petroleum Science and Engineering, v. 12, p. 67-77.

Gurevich, B., and Lopatnikov, S.L., 1995, Velocity and attenuation of elastic waves in finely layered porous rocks: Geophysical Journal International, v. 121, no. 3, p. 933-947.

Gwynn, J.W., 1995, Resistivities and chemical analyses of selected oil and gas field, water well, and spring waters, Utah: Utah Geological Survey Circular 87, 142 p.

Hagiwara, T., 1993, Induction log analysis of thinly laminated sand/shale formation, SPE-25361: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 86-90.

Hagiwara, T., 1995, Anisotropic shale and induction log shoulder bed corrections for deviated boreholes, paper Z, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Haldorsen, H.H., and Damsleth, E., 1991, Challenges in reservoir characterisation research, in Advances in reservoir technology proceedings: The Petroleum Science and Technology Institute, London, 39 p.

Haldorsen, J.B.U., Miller, D.E., and Walsh, J.J., 1995, Walk-away VSP using drill noise as a source: Geophysics, v. 60, no. 4, p. 978-997.

Haley, R.A., 1993, Pulsed neutron capture log interpretation in laminated formations--a dual exponential decay model, SPE-26126: Society of Petroleum Engineers, unsolicited

paper, 34 p. Later published in 1995: SPE Formation Evaluation, v. 10, no. 1, p. 20-25.

Hall, D.J., Adamick, J.A., Skoyles, D., DeWildt, J., and Erickson, J., 1995, AVO as an exploration tool--Gulf of Mexico case studies and examples: The Leading Edge, v. 14, no. 8, p. 863-868.

Hall, J., and Scandella, L., 1995, Estimation of critical formation evaluation parameters using techniques of neurocomputing, paper PPP, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hall, P.L., 1994, Physical and chemical aspects of development of overpressuring in sedimentary environments: Clay Minerals, v. 29, p. 425-437.

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.

Hamton, D.W., Hernandez, J.G., Vasques, G.A.V., Aquino, E.V., Barton, C., Laude, L., Lockhart, A.M.E., and Peebles, R.G., 1994, An integrated study of a Campache Bay fractured carbonate reservoir, SPE-28672, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 33-47.

Han, D-H., 1994, Weak cementation effect on velocities of sands, SL1.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1069-1072.

Hansen, K.S., Prats, M., and Chan, C.K., 1993, Finite-element modeling of depletion-induced reservoir compaction and surface subsidence in the South Belridge oil field, California, SPE-26074, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 437-452. Later published in 1995 as, Modeling of reservoir compaction and surface subsidence at South Belridge: SPE Production and Facilities, v. 10, no. 3, p. 134-143.

Hansen, T., 1995, Reservoir characterization by cokriging petrophysical well data and seismic attributes: Dialog [quarterly newsletter of the London Petrophysical Society], v. 3, no. 3, p. 4-6.

Har, B.S., Flemings, P.B., and Deshpande, A., 1995, Porosity and pressure--role of compaction disequilibrium in the development of overpressures in a Gulf Coast Pleistocene basin: Geology, v. 23, no. 1, p. 45-48.

Hardage, B.A., Levey, R.A., Pendleton, V., Simmons, J., and Edson, R., 1994, A 3-D seismic case history evaluating fluviially deposited thin-bed reservoirs in a gas-producing property: Geophysics, v. 59, no 11, p. 1650-1665.

Hardman, P., Lawson, B., and Rowson, C., 1994, MWD tool enables twin-well drilling: American Oil and Gas Reporter, v. 37, no. 10, p. 46-50.

Hardman, R., 1994, Induction and MWD resistivity tools in horizontal wells, paper 94-22, in 45th annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

Harikrishnan, R., and Hareland, G., 1995, Prediction of minimum principal in-situ stress by comparison and verification of four methods, SPE-29258, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 69-76

Harris, J.M., Nolen-Hoeksema, R.C., Langan, R.T., van Schaack, M., Lazaratos, S.K.,

and Rector, J.W., III, 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, part 1--summary and interpretation: *Geophysics*, v. 60, no. 3, p. 667-681.

Harris, P., Holsclaw, S., Mullen, M., Sagan, M., and Frisch, G., 1994, The use of production logs to evaluate completion and stimulation effectiveness, SPE-29178, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 197-212.

Harris, R.N., and Chapman, D.S., 1995, Climate change on the Colorado Plateau of eastern Utah inferred from borehole temperatures: *Journal of Geophysical Research*, v. 100, no. B4, p. 6367-6381.

Harrison, B., ed., 1995, Russian-style formation evaluation: Geological Society [London], 256 p.

Hart, B.S., Flemings, P.B., and Deshpande, A., 1995, Porosity and pressure--role of compaction disequilibrium in the development of geopressures in a Gulf coast Pleistocene basin: *Geology*, v. 23, no. 1, p. 45-48.

Harvey, P., Jackson, P., Lovell, M., Ashu, A., and Williamson, G., 1994, High resolution electrical imaging of aeolian sandstones, paper J, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 8 p.

Harvey, P.K.H., Pezard, P., Iturrino, G.J., Boldreel, L.O., and Lovell, M.A., 1995, The sheeted dike complex in hole 504B--observations from the integration of core and log data, chapter 26, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 305-311.

Hayles, J.G., Stevens, K.M., Serzu, M.H., and Lodha, G.S., 1992, Developments in the mini-charts system and field trial results in measuring excavation damage in granite, in 4th international symposium on borehole geophysics for minerals, geotechnical and groundwater applications, proceedings: Society of Professional Well Log Analysts, Minerals and Geotechnical Logging Society, Chapter-at-Large, p. 267-306. Later published in 1995: *The Log Analyst*, v. 36, no. 3, p. 12-37.

Hayman, A.J., Parent, P., Rouault, G., Zurquiyah, S., Verges, P., Liang, K., Stanke, F.E., and Herve, 12 p., 1995, Developments in corrosion logging using ultrasonic imaging, paper W, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hearn, F., 1994, Formation evaluation MWD enters a new capability realm: *World Oil*, v. 215, no. 11, p. 75-81.

Herrera, R., Samaniego, F., and Hernandez, F., 1994, On the petrophysics of carbonate reservoirs through whole core analysis, SPE-28675, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 71-80.

Herrick, D.C., and Kennedy, W.D., 1995, Formation resistivity factor and permeability relationships in rocks characterized by secondary solution porosity, paper QQQ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hicks, P.J., Jr., and Deans, H.A., 1992, Effect of permeability distribution on miscible displacement in a heterogeneous carbonate core, paper CIM 92-10, in 43rd annual technical meeting preprints, v. 1: CIM [Canadian Institute of Mining and Metallurgy] Petroleum Society,. Later published in 1994: Journal of Canadian Petroleum Technology, v. 33, no. 10, p. 28-34.

Hill, J.A., Soo, D.K.Y., and Verriah, T., 1992, Geological Society of Malaysia Bulletin, v. 32, p. 15-43.:

Hill, R., Middlebrook, M., Peterson, R., Johnson, E., McKetta, S., Wilson, G., and Branagan, P., 1993, Horizontal gas well completion technology in the Barnett Shale--analysis of the Mitchell Energy Corporation T.P. Sims B No. 1, Wise County, Texas: Gas Research Institute Report GRI-93/0282, 56 p.

Hill, R.E., Peterson, R.E., Warpinski, N.R., Lorenz, J.C., Teufel, L.W., and Aslakson, J.K., 1994, Techniques for determining subsurface stress direction and assessing hydraulic fracture azimuth, SPE-29192, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 305-320.

Hillis, R.R., 1993, Quantifying erosion in sedimentary basins from sonic velocities in shales and sandstones: Exploration Geophysics, v. 24, p. 561-566.

Hillis, R.R., and Williams, A.F., 1993, The contemporary stress field of the Barrow-Dampier sub-basin and its implications for horizontal drilling: Exploration Geophysics, v. 24, p. 567-576.

Hirlemann, G., 1993, Direct and indirect dipmeter logging; comparison and knowledge of sylvanite levels in salt beds of the Congo coastal basin [in French]:

Hirlemann, G., and Jaillard, L., 1993, Paleogeography and logs [in French]: Geologues, no. 100-101, p. 55-58.

Hodenfield, K., and Scanlan, B., 1992, Acquisition and interpretation of horizontal well logs, in Knauer, L.C., ed., Applications of horizontal drilling in California: AAPG Pacific Section Publication MP-42, p. 147-166.

Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., 1990, Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, variously paginated.

Holbrook, P.W., 1995, The relationship between porosity, mineralogy and effective stress in granular sedimentary rocks, paper AA, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Holbrook, P.W., Maggiori, D.A., and Hensley, R., 1993, Real-time pore pressure and fracture gradient evaluation in all sedimentary lithologies, SPE-26791, in Offshore Europe 93 proceedings, v. 2: Society of Petroleum Engineers, p. 395-408. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 117-129.

Holditch, S.A., and Yao, C.Y., 1993, Estimating permeability in the Wilcox "G" Sandstone in the Lake Creek unit well no. 48 using data from logging measurements, topical report: Gas Research Institute Report GRI-93/0390, 71 p.

Holenka, J., Best, D., Evans, M., Kurkoski, P. and Sloan, W., 1995, Azimuthal porosity while drilling, paper BB, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hollub, V.A., 1993, Results of camera surveys at Rock Creek, paper 9329, in 1993 international coalbed methane symposium proceedings, v. 2: University of Alabama, Birmingham, p. 659-665.

Hollyer, G.M., 1991, Applications of physical property logging in base metal exploration; case history of the Sheep Creek deposit, central Montana, USA: Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 245 p.

Holstein, E.D., and Warner, H.R., Jr., 1994, Overview of water saturation determination for the Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28573, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 67-76.

Holt, R.M., 1994, Effects of coring on petrophysical measurements, paper SCA-9407, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 77-86.

Honarpour, M.M., Cullick, A.S., Saad, N., and Humphreys, N.V., 1995, Effect of rock heterogeneity on relative permeability--implications for scale-up, SPE-29311, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 505-519.

Hoppie, B.W., Blum, and Shipboard Scientific Party, 1994, Natural gamma-ray measurements on ODP cores--introduction to procedures with examples from Leg 150, chapter 5, in Mountain, G.S., Miller, K.G., Blum P., et al., eds., Proceedings of the Ocean Drilling Program, initial reports, v. 150: Ocean Drilling Program, Texas A&M University, College Station, p. 51-59.

Horkowitz, J.P., Hartman, D.E., Clerke, E.A., Vinegar, H.J., and Coates, G.R., 1995, Residual oil saturation measurements in carbonates with pulsed NMR logs, paper Q, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Hornby, B.E., Johnson, C.D., Cook, J.M., and Coyner, K.B., 1994, Ultrasonic laboratory measurements of the elastic properties of shales, SL3.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1117-1120.

Horne, J.C., Forster, J.R., 1995, Depositional, diagenetic, and tectonic controls on Frontier Formation reservoir characteristics, Moxa Arch, southwestern Wyoming, SPE-29556, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 143-153.

Howard, A.Q., Jr., 1993, Inversion of multiple tool invasion model for resistivity log interpretation, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 898-903.

Howard, J.J., and Spinler, E.A., 1993, Nuclear magnetic resonance measurements of wettability and fluid saturations in chalk, SPE-26471, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 565-573. Later published in 1995: SPE Advanced Technology Series, v. 3, no. 1, p. 65.

Hsu, W.F., 1994, Wettability of porous media by nuclear magnetic resonance relaxation methods: Texas A&M University, College Station, Texas, unpublished Ph.D. thesis, 159

p.

Huey, D.P., and Storms, M.A., 1995, Deepwater drilling tools, part 2--New downhole tools improve core recovery: *Oil and Gas Journal*, v. 93, no. 4, January 23, p. 42-47.

Huey, D.P., and Storms, M.A., 1995, Deepwater drilling tools, Part 3--Modified wire line tools improved open hole logging operations: *Oil and Gas Journal*, v. 93, no. 5, January 30, p. 94-97.

Hurst, A., and Goggin, D., 1995, Probe permeametry--an overview and bibliography: *AAPG Bulletin*, v. 79, no. 3, p. 463-473.

Hurst, A., and Milodowski, T., 1994, Characterisation of clays in sandstones--thorium content and spectral log data, paper S, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 16 p.

Hurst, A., and Nadeau, P., 1994, A little clay - volumes of problems, paper A, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 21 p.

Hurst, A., and Nadeau, P., 1994, Estimation of water saturation from clay microporosity data, SPE-28850, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 451-458.

Hurst, A., and Nadeau, P.H., 1995, Clay microporosity in reservoir sandstones--an application of quantitative electron microscopy in petrophysical evaluation: *AAPG Bulletin*, v. 79, no. 4, p. 563-573.

Hurtig, E., Grosswig, S., Jobmann, M., Kuhn, K., and Marschall, P., 1994, Fibre-optic temperature measurements in shallow boreholes--experimental application for fluid logging: *Geothermics*, v. 23, no. 4, p. 355-364.

Husband, F.J., Palomo, R.M., and Roca, L.R., 1994, Logging while drilling applications in Latin America and the Caribbean, SPE-28727, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 561-572.

Hutchinson, M.W., 1991, Comparisons of MWD, wireline, and core data from a borehole test facility, SPE-22735, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 741-754. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 38-51.

Idowu, A.O., 1993, Reservoir fluid differentiation case history from an offshore Niger Delta field: *Geoinformatics [Geological Data Processing]*, v. 4, no. 3, p. 291-300.

Imamura, S., 1994, Integrated interpretation of exploration data in geotechnical engineering--an approach using fuzzy theory, CT1.6, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 202-205.

Imazumi, T., and Kozawa, T., 1994, Gas reservoir delineation by shear wave VSP [abs.], G042, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Ingerman, V.G., 1995, Statistical integration of log data for lithology determination and formation evaluation: *The Log Analyst*, v. 36, no. 3, p. 38-48.

Isambourg, P. and Essel, P., 1994, Cement logging--toward an analysis of the quality of

cement-formation bonding [in French]: *Revue de l'Institut Francais du Petrole*, v. 49, no. 3, p. 225-234.

Ishak, I.B., Steele, R.P., Maccaulay, R.C., Stephenson, P.M., and Al Mantheri, S.M., 1995, Review of horizontal drilling, SPE-29812, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 391-404.:

Iverson, W.P., and Surdam, R.C., 1995, Tight gas sand production from the Almond Formation, Washakie Basin, Wyoming, SPE-29559, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 163-176.

Jackson, M.A., Bowen, D.G., Jensen, J.L., and Todd, A.C., 1994, Resistivity and permeability mapping at the lamina scale, paper SCA-9415, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 163-172.

Jackson, P., Lovell, M.A., and Harvey, P., 1993, Electrical resistivity imaging, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1363-1366.

Jackson, P., Lovell, M., Harvey, P., Ball, J., Williams, C., Flint, R., Gunn, D., Ashu, P., and Meldrum, P., 1994, Electrical resistivity core imaging--a new technology for high resolution investigation of petrophysical properties, paper I, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 14 p.

Jakobsen, S.R., Ingsoy, P., Braun, T., Guo, Y., and Aga, M., 1994, Assessing the relative permeability of heterogeneous reservoir rock, SPE-28856, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 521-529.

Jalinoos, F., Olson, L.D., and Aouad, M.F., 1995, Ultrasonic crosshole and crossmedium tomography for the detection of defects in structural concrete, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 45-52.

Janot, P., Gauer, P., and Gross, E., 1988, Orientation of tectonic stress in western Europe from borehole breakouts [in French]: *Revue de l'Institut Francais du Petrole*, v. 43, no. 4, p. 517-521.

Japsen, P., 1994, Retarded compaction due to overpressure deduced from a seismic velocity/depth conversion study in the Danish central trough, North Sea: *Marine and Petroleum Geology*, v. 11, no. 6, p. 715-733.

Jeans, C.V., 1994, Clay diagenesis, overpressure and reservoir quality--an introduction: *Clay Minerals*, v. 29, p. 415-424.

Jenner, R., and Baldwin, J., 1994, Application of an artificial neural network to obtain an improved permeability profile, paper M, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 17 p.

Jennings, J.B., 1987, Capillary pressure techniques--application to exploration and development geology: *AAPG Bulletin*, v. 71, no. 10, p. 1196-1209. Later reprinted in 1994, in *Petrophysics*: Society of Petroleum Engineers Reprint Series No. 39, p. 67-80.

Jennings, R.L., and Weber, G.A., 1995, Towards fast quantitative modelling of pulsed neutron logging tools, paper A, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Jensen, J.L., Corbett, P.W.M., and Glasbey, C.A., 1994, On the interaction of geology, measurement, and statistical analysis of small-scale permeability measurements: *Terra Nova*, v. 6, no. 4, p. 397-403.

Jerauld, G.R., and Rathmell, J.J., 1994, Wettability and relative permeability of Prudhoe Bay--a case study in mixed-wet reservoirs, SPE-28576, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 101-116.

Jia, D., Buckley, J.S., and Morrow, N.R., 1994, Alteration of wettability by drilling mud filtrates, paper SCA-9408, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 87-96.

Jin, M., and Sharma, M.M., 1994, Shaly sand formation evaluation using a single membrane potential measurement: *Journal of Petroleum Science and Engineering*, v. 11, p. 301-310.

Jizba, D.L., and Marion, D.P., 1994, Heimdal monitoring I--establishing feasibility from cores and logs, DP4.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 327-330.

Johansen, T.A., and Kenstrom, R., 1993, Evaluation of formation properties from acoustic data, in Lerkendal petroleum engineering workshop proceedings: Norwegian Institute of Technology, Trondheim, Norway, p. 83-97.

Johnson, W.E., 1995, Direct detection of gas in pre-Tertiary sediments?: *The Leading Edge*, v. 14, no. 2, p. 119-122.

Johnston, J.E., and Christiansen, N.I., 1995, Seismic anisotropy of shales: *Journal of Geophysical Research*, v. 100, no. B4, April 10, p. 5991-6003.

Judge, A., 1973, The prediction of permafrost thickness: *Canadian Geotechnical Journal*, v. 10, no. 1, p. 1-11.

Judge, A., and Taylor, A., 1985, Permafrost distribution in northern Canada--interpretation of well logs, in Brown, J., Metz, M.C., and Hoekstra, P., eds., *Workshop on permafrost geophysics*: U.S. National Research Council, Polar Research Board, Committee on Permafrost, Special Report 85-5, p. 19-25.

Kaiser, W.R., Hamilton, D.S., Scott, A.R., Tyler, R., and Finely, R.J., 1994, Geological and hydrological controls on the producibility of coalbed methane: *Journal of the Geological Society, London*, v. 151, p. 417-420.

Kamath, V.A., Sharma, G.D., and Patil, S.L., 1991, Development of Alaskan gas hydrate resources: U.S. Department of Energy Report DOE/FE/61114-3031, 149 p. A condensed version later published in 1992 as, Sharma, G.D., Kamath, V.A., and Patil, S.L., Natural gas hydrate resources of the Alaskan Arctic and their recovery potential, in 2nd international offshore and polar engineering conference proceedings, v. 1: International Society of Offshore and Polar Engineers, Golden Colorado, p. 652-659.

Karma, R., 1991, Geology and geochemistry of the Bakken Formation (Devonian-Mississippian) in Saskatchewan: University of Regina, Saskatchewan, Canada, unpublished MS thesis, 109 p.

Kasha, L., Richards, S., and McDonald, J., 1993, Through casing fracture detection in the Trenton dolomite using sonic techniques, paper 3, in 32nd annual conference proceedings: Ontario Petroleum Institute, Ontario, Canada, 15 p.

Katahara, K.W., 1995, Gamma ray log response in shaly sands: *The Log Analyst*, v. 36, no. 4, p. 50-55.

Katsube, T.J., and Williamson, M.A., 1994, Effects of diagenesis on shale nano-pore structure and implications for sealing capacity: *Clay Minerals*, v. 29, p. 451-461.

Katz, S.A., Chilingarian, G.V., and Islam, M.R., 1995, Estimation of reservoir porosity and saturations using multiple sources of geophysical data: *Journal of Petroleum Science and Engineering*, v. 13, p. 103-111.

Kay, S.E., Dougherty, M.E., and Pelton, J.R., 1994, The relationship of seismic velocity structure and surface fracture characteristics of basalt outcrops to rippability estimates, in Link, P.K., ed., *Hydrogeology, waste disposal, science and politics, 30th symposium on engineering geology and geotechnical engineering, proceedings: Idaho State University, Pocatello, College of Engineering*, p. 107-120.

Kelley, W.E., and Mares, S., eds., 1993, *Applied geophysics in hydrogeological and engineering practice*: Elsevier, Amsterdam, 288 p.

Kelley, W.E., and Mares, S., eds., 1993, Logging of hydrogeological wells, in *Applied geophysics in hydrogeological and engineering practice*, chapter 4: Elsevier, Amsterdam, p. 150-164.

Kelley, W.E., and Mares, S., eds., 1993, Geophysical surveys for hydrogeological purposes, chapter 3, in *Applied geophysics in hydrogeological and engineering practice*: Elsevier, Amsterdam, p. 31-101.

Kennedy, T.E., 1992, *Methodology for the correlation of electromagnetic induction log data with hydrogeological data obtained by other methods*: Boston College, Massachusetts, unpublished M.S. thesis.

Kennedy, W.D., 1995, Induction log forward modeling--a rigorous and systematic approach to model construction, paper G, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Kenyon, W.E., Takezaki, H., Straley, C., Sen, P.N., Herron, M., Matteson, A., Petricola, M.J., 1995, A laboratory study of nuclear magnetic resonance relaxation and its relation to depositional texture and petrophysical properties--carbonate Thamama Group, Mubarratz field, Abu Dhabi, SPE-29886, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 477-502.:

Kessler, C., and Frisch, G., 1995, New fullbore production logging sensor improves the evaluation of production in deviated and horizontal wells, SPE-29815, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 431-444.:

Keys, W.S., Hoffman, G.L., and Pawlowicz, J.G., 1990, General methods of analyzing geophysical logs and core data, chapter 2, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 15 p.

Keys, W.S., Mwenifumbo, C.J., and Hulatt, E.W., 1990, Potentially applicable new tools, chapter 7, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics*

project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 20 p.

Keys, W.S., and Pawlowicz, J.G., 1990, Determining the water table, chapter 4, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 22 p.

Khaykovich, I.M., and Serykh, A.S., 1995, Spectrometric gamma logging in mineral deposits: Nuclear Geophysics, v. 9, no. 1, p. 35-43.

Kimura, M., Kanazaki, Y., and Saito, H., 1994, Development of a borehole radar system and its field experiments for the base of crosshole tomography, EM3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 414-417.

King, M.S., Pandit, B.I., Hunter, J.A., and Gajtani, M., 1982, Some seismic, electrical, and thermal properties of sub-seabottom permafrost from the Beaufort Sea, in French, H.M., ed., The Roger J.E. Brown memorial volume [proceedings of the 4th Canadian permafrost conference]: National Research Council of Canada, 268-273.

Kirkman, M., and Seim, P., 1989, Depth measurements with wireline and MWD logs: Society of Professional Well Log Analysts, Norwegian Chapter short course. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 27-33.

Klein, J.D., Martin, P.R., and Allen, D.F., 1995, The petrophysics of electrically anisotropic reservoirs, paper HH, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Kleinberg, R.L., 1995, Petrophysics of the nuclear magnetic resonance tool, chapter 5, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Klimentos, T., 1995, Petrophysics and seismic wave technology--applications in exploration, formation evaluation, and reservoir characterization, SPE-29887, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 503-518.

Klimentos, T., 1995, Attenuation of P- and S-waves as a method of distinguishing gas and condensate from oil and water: Geophysics, v. 60, no. 2, March-April, p. 447-458.

Knauer, L.C., ed., 1992, Applications of horizontal drilling in California: AAPG Pacific Section Publication MP-42, 260 p.

Knight, R., and Abad, A., 1995, Rock/water interaction in dielectric properties--experiments with hydrophobic sandstones: Geophysics, v. 60, no. 2, March-April, p. 431-436.

Knight, R., Tercier, P., and Goertz, D., 1995, A laboratory procedure for estimating irreducible water saturation from cuttings, paper YY, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Knoll, M.D., Knight, R., and Brown, E., 1995, Can accurate estimates of permeability be obtained from measurements of the dielectric properties?, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical

Society, p. 25-35.

Koestler, A.G., and Reksten, K., 1994, 3D characterization of the fracture network in a deformed chalk reservoir analogue--the Lagerdorf case, SPE-28728, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 573-583.

Kohhedee, J.A., 1994, Simultaneous determination of capillary pressure and relative permeability of a displaced phase, SPE-28827, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 213- 222.

Kokkedee, J.A., and Boutkan, V.K., 1995, Towards measurement of capillary pressure and relative permeability at representative wettability, in de Haan, H.J., ed., New developments in improved oil recovery: Geological Society [London] Special Publication No. 84, p. 43-50.

Kopaska-Merkel, D.C., and Mann, S.D., 1994, Classification of lithified carbonates using ternary plots of pore facies--examples from the Jurassic Smackover Formation, chapter 20, in Carbonate microfabrics symposium proceedings: Texas A&M University, College Station, Texas, Frontiers in Sedimentary Geology Series, p. 265-277.

Kopaska-Merkel., D.C., and Schmoker, J.W., 1994, Regional porosity evolution in the Smackover Formation of Alabama: Carbonates and Evaporites, v. 9, no. 1, p. 58-75.

Kork, J.O., 1994, JKPLOT version 2.00--a device-independent plotting system written in QuickBasic for an IBM PC: Computers and Geosciences, v. 20, no. 1, p. 41-45.

Korolev, V.A., and Mechetin, V.F., 1995, Electromagnetic logging by a lateral magnetic dipole; perspectives of electromagnetic well scanning: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 6 p.

Koster, K., Williams, M., Esmersoy, C., and Walsh, J., 1994, Applied production geophysics using shear-wave anisotropy--production applications for the dipole shear imager and the multicomponent VSP, DP1.1, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 233-235.

Kozhevnikov, D.A., Lazutkina, N.Y., and Sokolova, T.F., 1995, Complex reservoir studies and evaluation: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 9 p.

Kramers, J., Yuan, L-P., Bachu, S., and Cuthiell, D., 1990, Reservoir characterization case study--sandy facies, in Bachu, S., ed., 5th Canadian/American conference on hydrogeology: National Water Well Association, Dublin, Ohio, [also Alberta Research Council Information Series 116] p. 72-86.

Krammer, A., Menger, S., Chabernaud, T., and Fuchs, K., 1994, Borehole televiewer data analysis from the New Hebrides island arc--the state of stress at hole 829A and 831B, in Greene, H.G., Collot, J-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 565-576.

Krammer, A., Pezard, P., Harvey, P.K.H., and Fuchs, K., 1995, Borehole televiewer data analysis of hole 504B from legs 137 and 140, chapter 25, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 137/140: Texas A&M University, Ocean Crilling Program, College

Station, Texas, p. 293-304.

Krason, J., and Finley, P.D., 1993, Messoyakh gas field--Russia, in Beaumont, E.A., and Foster, N.H., eds., Structural traps VII: AAPG Treatise of Petroleum Geology, Atlas of Oil and Gas Fields, p. 197-220.

Krynicka, E., 1994, Statistical analysis of a correlation method for thermal neutron absorption cross-section determination: Nuclear Geophysics, v. 8, no. 5, p. 433-441.

Kubica, 12 p., 1995, Statistical tests of permeability estimates based on NMR measurements, paper VVV, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Kutasov, I.M., 1995, Empirical equation estimates geothermal gradients: Oil and Gas Journal, v. 93, no. 1, January 2, p. 48, 50.

Kvenvolden, K.A., 1993, Gas hydrates as a potential energy resource--a review of their methane content, in Howell, D.G., ed., The future of energy gases: U.S. Geological Survey Professional Paper 1570, p. 555-561.

Kvenvolden, K.A., 1993, Gas hydrates--geological perspective and global change: Reviews of Geophysics, v. 31, no. 2, May, p. 173-187.

Kvenvolden, K.A., 1994, Gas hydrate occurrence and issues, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 232-246.

Lachenbruch, A.H., Sass, J.H., Clow, G.D., and Wildon, R., 1995, Heat flow at Cajon Pass, California, revisited: Journal of Geophysical Research, v. B100, no. 2, February 10, p. 2005-2012.

Lachenbruch, A.H., Sass, J.H., Marshall, B.V., and Moses, T.H., Jr., 1982, Permafrost, heat flow and the geothermal regime at Prudhoe Bay, Alaska: Journal of Geophysical Research, v. 87, no. B11, November 10, p. 9301-9336.

Lackie, M.A., and Schmidt, P.W., 1993, Drill core orientation using paleomagnetism: Exploration Geophysics, v. 24, p. 609-614.

Lang, W.H., 1994, The determination of thermal maturity in potential source rocks using interval transit time/interval velocity: The Log Analyst, v. 35, no. 6, p. 47-59.

Langford, R.P., 1992, Use of dipmeters in stratigraphic and depositional interpretation of natural gas reservoirs of the Oligocene Vicksburg Formation--an example from McAllen Ranch field, Hidalgo County, Texas, of technology applications for infield reserve growth: Gas Research Institute Report GRI-91/261, 80 p. Later published in 1994: Texas Bureau of Economic Geology, Geological Circular 94-1, 39 p.

LaTorraca, G.A. Dunn, K.J., and Bergman, D.J., 1995, Magnetic susceptibility contrast effects on NMR T2 logging, paper JJ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 8 p.

Lazaratos, S.K., Langan, R., Harris, J.M., and Marion, B.P., 1994, Shear-wave crosswell reflection imaging in west Texas, DP3.2, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 289-293.

Leake, J., and Shray, F., 1991, Logging while drilling keeps horizontal well on small target: Oil and Gas Journal, v. 89, no. 38, September 23, p. 53-59. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 201-206.

Leaney, W.S., 1993, AVO and anisotropy from logs and walkaways: *Exploration Geophysics*, v. 24, p. 623-630.

Lebret, F., 1993, Logging in exploration for sulfur minerals [in French]: *Geologues*, no. 100-101, p. 33-36.

Lee, C-H., and Farmer, I., 1994, Rock and rock mass permeability, chapter 1, in *Fluid flow in discontinuous rocks*: Chapman and Hill, London, p.1-37.

Lee, C-H., and Farmer, I., 1994, Rock discontinuity characterization, chapter 2, in *Fluid flow in discontinuous rocks*: Chapman and Hill, London, p.38-64.

Lee, C-H., and Farmer, I., 1994, Permeability and depth in rock masses, chapter 4, in *Fluid flow in discontinuous rocks*: Chapman and Hill, London, p. 84-103.

Lee, D.S., Stevenson, V.M., Johnston, P.F., and Mullen, C.E., 1995, Time-lapse crosswell seismic tomography to characterize flow structure in the reservoir during thermal stimulation: *Geophysics*, v. 60, no. 6, p. 660-666.

Lee, D.S., Walden, A., and Wachi, N., 1994, Fracture characterization of the Monterey Formation using VSP: *Journal of Seismic Exploration*, v. 3, no. 4, p. 335-350.

Lee, M.W., Hutchinson, D.R., Agena, W.F., Dillon, W.P., Miller, J.J., and Swift, B.A., 1994, Seismic character of gas hydrates on the southeastern U.S. continental margin: *Marine Geophysical Research*, v. 16, no. 3, June, p. 163-184.

Lee, M.W., Hutchinson, D.R., Dillon, W.P., Miller, J.J., Agena, W.F., and Swift, B.A., 1992, A method of estimating the amount of in-situ gas hydrates in deep marine sediments: U.S. Geological Survey Open-File Report OF92-276, 29 p. Later published in 1993 as, Use of seismic data in estimating the amount of in-situ gas hydrates in deep marine sediment, in Howell, D.G., ed., *The future of energy gases*: U.S. Geological Survey Professional Paper 1570, p. 563-581.

Lee, T.-C., and Damiata, B.N., 1995, Distortion in resistivity logging at shallow depth: *Geophysics*, v. 60, no. 4, p. 1058-1069.

Lempp, C., Natau, O., Bayer, U., and Welte, D.H., 1994, The effect of temperature on rock mechanical properties and fracture mechanisms in source rocks--experimental results, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 147-154.

Leshchyshyn, T., and Kennedy, W., 1994, Post core analysis to determine the steam flow path in the McMurray oil sands: *Journal of Canadian Petroleum Technology*, v. 33, no. 7, p. 53-64.

Lewis, J., Arnot, M., Corbett, P., Feghi, F., Good, T., Jensen, J., Pelling, R., Pickup, G., Ringrose, P., and Sorbie, K., 1994, Reservoir description research: *Geoscientist*, v. 3, no. 1, p. 7-12.

Liaw, H.-K., Kulkarni, R., Chen, S., and Watson, A.T., 1994, The use of magnetic resonance spectroscopy to probe microscopic structures and fluid distributions in porous media, paper SCA-9403, in *SCA international symposium proceedings*: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 29-42.

Lile, O.B., 1994, Modelling SP anomalies, paper N, in *16th European formation evaluation symposium transactions*: Society of Professional Well Log Analysts, Aberdeen Chapter, 13 p.

Lin, J.L., and Salisch, H.A., 1993, Determination of potential yield and volatile

hydrocarbons from well logs in potential source rocks, SPE-27626: Society of Petroleum Engineers, unsolicited manuscript, 28 p. Later published in 1994: APEA [Australian Petroleum Exploration Association] Journal, v. 34, part 1, p. 307-319.

Lin, J.L., and Salisch, H.A., 1994, Determination from well logs of porosity and permeability in a heterogeneous reservoir, SPE-28792, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 495-506.

Lind, I., Nykjaer, O., Priisholm, S., and Springer, N., 1992, Permeability of stylolite-bearing chalk, SPE-26019: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1994: Journal of Petroleum Technology, v. 46, no. 11, p. 986-993.

Lindholm, C.D., Bungum, H., Bratli, R.K., Dahl, N., Torudbakken, B., Aadnøy, B.S., and Atakan, K., 1995, Crustal stress in the northern North Sea as inferred from borehole breakouts and earthquake focal mechanisms: Terra Nova, v. 7, no. 1, p. 51-59.

Lines, L., Tan, H., Trietel, S., Beck, J., Chambers, R., Eager, J., Savage, C., Queen, J., Rizer, W., Buller, P., Cox, D., Ballard, J., Kokkoros, G., Sinton, J., Track, A., Guerendel, P., Harris, J., Lazaratos, S., and Van Schaak, M., 1994, Integrated reservoir characterization--beyond tomography, SPE-28385, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 229-234. Later published in 1995: Geophysics, v. 60, no. 2, March-April, p. 354-364.

Link, C.A., 1993, Crosshole seismic analysis for reservoir characterization and lithology identification: University of Houston, Texas, unpublished Ph.D. dissertation, 231 p.

Link, C.A., McDonald, J.A., Ebrom, D.A., and Zhou, H-W., 1993, Characterization of lithology using crosshole methods: Exploration Geophysics, v. 24, p. 645-654.

Liu, X., Vernik, L., and Nur, A., 1994, Effects of saturating fluids on seismic velocities in shale, SL3.2, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 1121-1124.

Lloyd, T.A., 1994, Neutron porosity logging revisited: Schlumberger Oilfield Review, v. 6, no. 4, p. 4-8.

Lo, T-W., and Bermawi, A., 1994, Reservoir characterization with sequential Gaussian simulation constrained by diffraction tomography, DP2.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 273-276.

Lo, T.-H., Howlett, D.L., and Hoyer, S.A., 1994, High resolution cross-well reflection imaging and its application in west Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 181-183.

Lofts, J., Harvey, P., and Lovell, M., 1995, Reservoir characterization from downhole mineralogy: Marine and Petroleum Geology, v. 12, no. 3, p. 233-246.

Lofts, J.C., Harvey, P.K., and Lovell, M.A., 1995, The characterization of reservoir rocks using nuclear logging tools--evaluation of mineral transform techniques in the laboratory and log environments: The Log Analyst, v. 36, no. 2, p. p. 16-28.

Lomax, J., and Howard, A., 1994, New logging tool identifies permeability in shaley sands: Oil and Gas Journal, v. 92, no. 51, December 19, p. 104-108.

Longeron, D., Hammervold, W.L., and Skjoeveland, S. M., 1994, Water-oil capillary pressure and wettability measurements using micropore membrane technique, paper

SCA-9426, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 285-294.

Longeron, D., Kalaydjian, F., and Bardon, C., 1995, Gas-oil capillary pressure measurements at reservoir conditions--effect of interfacial tension and connate water saturation, in de Haan, H.J., ed., New developments in improved oil recovery: Geological Society [London] Special Publication No. 84, p. 73-80.

Looyestijn, W., Schiet, M., and Runia, J., 1994, Successful field test of nuclear magnetic resonance (NMR) logging in the Rotterdam field, paper X, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 11 p.

Lopez-Diaz, F., and Bastida, F., 1994, Structural data from drill core: Geological Magazine, v. 131, no. 5, p. 619-623.

Lorenz, J.C. and Laubach, S.E., 1994, Description and interpretation of natural fracture patterns in sandstones of the Frontier Formation along the Hogsback, southwestern Wyoming: Gas Research Institute Report GRI-94/0020, 89 p.

Lorenz, C., Lefavrais, A., Lorenz, J., Marchand, D., and Millon, R., 1991, Stratigraphical correlations of the Jurassic well loggings [sic] in the southern part of the Paris basin with the Sancerre-Couy borehole [in French]: Bulletin de la Societe Geologique de France, v. 162, no. 5, p. 907-912.

Lou, M., and Crampin, S., 1992, Guided-wave propagation between boreholes: The Leading Edge, v. 11, no. 7, p. 34-37.

Lovell, J.R., Rosthal, R.A., Arceneaux, C.L., Jr., Young, R.A., and Buffington, L., 1995, Structural interpretation of resistivity-at-the-bit images, paper TT, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Lovell, M., Harvey, P., Jackson, P., Flint R., and Gunn, D., 1994, Characterisation of thinly-bedded reservoirs--a role for electrical resistivity core imaging?, paper H, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 7 p.

Lovell, M.A., Harvey, P., and Lofts, J., 1993, Geochemical logging, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 964-968.

Low, S., Kelley, V., and Vomvoris, S., 1994, Hydraulic borehole characterization through the application of moment methods to fluid conductivity logs: Journal of Applied Geophysics, v. 31, p. 117-131.

Lowden, B., 1994, Image analysis--obtaining 3-D data from 2-D: Dialog [London Petrophysical Society Quarterly Newsletter], v. 2, no. 4, October, p. 6-7, 16.

Lu, X., Miao, P., Watson, A.T., Pepin, G.P., Moss, R.M., and Semmelbeck, M., 1994, X-ray computed tomography studies of gas storage and transport in Devonian shales: AIChE Journal, v. 40, no. 7, p. 1246-1253.

Lucas, P., 1993, Reservoir characterisation using imaging logs--a future trend in reservoir development?, in Advances in reservoir technology proceedings: The Petroleum Science and Technology Institute, London, 12 p.

Lund, H-J., Ates, H., Kasap, E., and Tillman, R.W., 1995, Comparison of single and multi-facies variograms of Newcastle Sandstone--measures for the distribution of

barriers to flow, SPE-29596, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 507-522.

Luo, M., Wood, J.R., and Cathles, L.M., 1995, Prediction of thermal conductivity in reservoir rocks using fabric theory: *Journal of Applied Geophysics*, v. 32, p. 321-334.

Luo, P., Machel, H.G., and Shaw, J., 1994, Petrophysical properties of matrix blocks of a heterogeneous dolostone reservoir--the Upper Devonian Grosmont Formation, Alberta, Canada: *Bulletin of Canadian Petroleum Geology*, v. 42, no. 4, p. 465-481.

Luthy, S.T., and Grover, G.A., 1995, Three dimensional geologic modelling of a fractured reservoir, Saudi Arabia, SPE-29814, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 419-430.

Lynn, H.B., Bates, R., Layman, M., and Jones, M., 1995, Natural fracture characterization using P-wave reflection seismic data, VSP, borehole imaging logs, and the in-situ stress field determination, SPE-29595, in SPE Rocky Mountain/Low permeability reservoirs symposium proceedings: Society of Petroleum Engineers, p. 493-506.

Lynn, H.B., Simon, K.M., Layman, M., Schneider, R., Bates, C.R., and Jones, M., 1995, Use of anisotropy in P-wave and S-wave data for fracture characterization in a naturally fractured gas reservoir: *The Leading Edge*, v. 14, no. 8, p. 887-893.

Lysne, P., 1994, Development of geothermal logging systems in the United States: Sandia National Laboratory Report No. SAND-94-0389C, 9 p.

Lysne, P., and Henfling, J., 1994, Design of a pressure/temperature logging system for geothermal applications: Sandia National Laboratory Report No. SAND-94-0949C, 7 p.

MacDonald, G.J., 1990, Role of methane clathrates in past and future climates: *Climatic Change*, v. 16, p. 247-281.

MacFarlane, P.A., Doveton, J.H., Feldman, H.R., Butler, J.J., Jr., Combes, J.M., and Collins, D.R., 1994, Aquifer/aquitard units of the Dakota aquifer system in Kansas--methods of delineation and sedimentary architecture effects on ground-water flow and flow properties: *Journal of Sedimentary Research*, v. B64, no. 4, p. 464-480.

Mack, T.J., 1993, Detection of contaminant plumes by borehole geophysical logging: *Ground Water Monitoring Review*, v. 13, no. 1, p. 107-114.

MacKay, M.E., Jarrard, R.D., Westbrook G.K., and Hyndman, R.D., 1994, Origin of bottom-simulating reflectors--geophysical evidence from the Cascadia accretionary prism: *Geology*, v. 22, May, p. 459-462.

Maddinelli, G., Camanzi, A., Carati, C., and Brancolini, A., 1994, Heterogeneous systems--an integrated approach based on different imaging techniques, paper SCA-9406, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 67-76.

Maddox, S., Gibling, G.R., and Dahl, J., 1995, Downhole video services enhance conformance technology, SPE-30134, in European formation damage conference proceedings: Society of Petroleum Engineers, p. 535-549.

Makogon, Y.F., 1981, *Hydrates of natural gas*: PennWell Books, Tulsa, Oklahoma, 237 p.

Makogon, Y.F., Trebin, F.A., Trofimuk, A.A., Tsarev, V.P., and Cherskiy, N.V., 1972, Detection of a pool of natural gas in a solid (hydrated gas) state: *Doklady Earth Science*

Section, v. 196, p. 197-200.

Mallick, R.K., and Raju, S.V., 1995, Application of wireline logs in characterization and evaluation of generation potential of Paleocene-Lower Eocene source rocks in parts of Upper Assam Basin, India: *The Log Analyst*, v. 36, no. 3, p. 49-63

Malone, R.D., 1994, Hydrate characterization research overview, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., *International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science*, v. 715, p. 358-363.

Malone, R.D., 1994, Overview--gas hydrate geology and geography, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., *International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science*, v. 715, p. 225-231.

Malone, R.D., and Dillon, W., 1992, Detection development needs for gas hydrates in sediments: U.S. Department of Energy Report DOE/METC/C-92/7011, 9 p. Also published in 1992, in 2nd international offshore and polar engineering conference proceedings, v. 1: *International Society of Offshore and Polar Engineers*, Golden Colorado, p. 660-668.

Maloney, D., Doggett, K., and Gilliland, R., 1994, New procedure and apparatus for combined reservoir condition gas-brine relative permeability, capillary pressure, and electrical property measurements, paper SCA-9427, in *SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large*, p. 295-304.

Mann, U., 1994, An integrated approach to the study of primary petroleum migration, in Parnell, J., ed., *Geofluids, origin, migration, and evolution of fluids in sedimentary basins: Geological Society [London] Special Publication No. 78*, p. 233-260.

Mao, Z.Q., Zhang, C.G., Lin, C.Z., Ouyang, J., Wang, Q. and Yan, C.J., 1995, The effects of pore structure on electrical properties of core samples from various sandstone reservoirs in Tarim Basin, paper LL, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 12 p.

Mardon, D., 1995, Basic physics of the nuclear magnetic resonance (NMR) logging tools, chapter 2, in Georgi, D.T., ed., *Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts*, variously paginated.

Mardon, D., Prammer, M.G., Taicher, Z., Chandler, R.N. and Coates, G.R., 1995, Improved environmental corrections for MRIL pulsed NMR logs run in high-salinity boreholes, paper DD, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 12 p.

Mares, S., Zboril, A., and Kelley, W.E., 1994, Logging for determination of aquifer hydraulic properties: *The Log Analyst*, v. 35, no. 6, p. 16-27.

Mari, J.-L., Coppens, F., Gavin, P., and Wicquart, E., 1995, Full waveform acoustic data processing: *Editions Technip*, 136 p.

Mari, J.L., Coppens, F., Blondin, E., and Wicquart, E., 1995, Slowness and delay in acoustic logging, paper L, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 11 p.

Marsala, A.F., Ragazzini, G., Meazza, O., Brignoli, M., and Santarelli, F.J., 1994, Basin scale rock mechanics--logs and core measurements, in *Rock mechanics in petroleum*

engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 105-112.

Martin, C.D., Martino, J.B., and Dzik, E.J., 1994, Comparison of borehole breakouts from laboratory and field tests, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 183-190.

Marzouk, I., Takezaki, H., and Miwa, M., 1995, Geologic controls on wettability of carbonate reservoirs, Abu Dhabi, U.A.E., SPE-29883, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 2, p. 449-460.:

Mathews, A.R., 1991, Estimating sandstone permeability using network models with pore size distributions: Texas A&M University, College Station, Texas, unpublished M.S. thesis, 118 p.

Mathews, M., Hahn, K., Thompson, J., Gakeken, L., and Madigan, W., 1994, Subsurface radionuclide investigation of a nuclear test: Journal of Applied Geophysics, v. 32, p. 279-291.

Mathis, B., Haller, D., Ganem, H., and Standon, E., 1995, Orientation and calibration of core and borehole image data, paper JJJ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Mathis, V., 1993, Logging and mineral exploration in sedimentary terrains [in French]: Geologues, no. 100-101, p. 37-41.

Mathisen, M.E., Cunningham, P., Shaw, J., Vasiliou, A.A., Justice, J.H., and Guinzy, N.J., 1995, Crosswell seismic radial survey tomograms and the 3-D interpretation of a heavy oil steamflood: Geophysics, v. 60, no. 6, p. 651-659.

Mathisen, M.E., Vasiliou, A.A., Cunningham, P., Shaw, J., Justice, J.H., and Guinzy, N.J., 1995, Time-lapse crosswell seismic tomogram interpretation--implications for heavy oil reservoir characterization, thermal recovery process monitoring, and tomographic imaging technology: Geophysics, v. 60, no. 6, p. 631-650.

Mattar, L., 1995, Reservoir pressure analysis--art or science?: Journal of Canadian Petroleum Technology, v. 34, no. 3, p. 1316.

Matyas, V., 1995, Application of Kruskal multidimensional scaling (MDS) to rock type identification from well logs: The Log Analyst, v. 36, no. 1, p. 28-34.

Maver, K.G., 1995, Porosity evaluation of seismically-resolved Zechstein carbonate layers, Logumkloster-1 well, Denmark: Journal of Petroleum Geology, v. 18, no. 3, p. 329-344.

Mavko, G., Mukerji, T., and Godfrey, N., 1995, Predicting stress-induced velocity anisotropy in rocks: Geophysics, v. 60, no. 4, p. 1081-1087.

Mavor, M.J., and McBane, R.A., 1990, Formation evaluation of exploration coalbed methane wells, paper CIM/SPE 90-101 [also SPE-21589], in Technology in the 90's; prospering in a changing environment: Petroleum Society of CIM/SPE international technical meeting preprints v. 3, 19 p. Later reprinted in 1992, in Coalbed methane: Society of Petroleum Engineers, Reprint Series No. 35, p. 27-45. Later published in 1994 as, Mavor, M.J., Close, J.C., and McBane, R.A.: SPE Formation Evaluation, v. 9, no. 4, p. 285-294.

Max, M.D., and Lowrie, A., 1992, Natural gas hydrate--Arctic and Nordic Sea potential, in Vorren, T.O., Bergsager, E., Dahl-Stamnes, O.A., Holter, E., Johansen, B., Lie, E., and Lund, T.B., eds., Arctic geology and petroleum potential: Elsevier, Amsterdam,

Norwegian Petroleum Society Special Publication, No. 2, p. 27-53.

McAfee, A., 1994, Digital core description data--the missing link in effective reservoir characterisation, paper D, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 11 p.

McCann, C., 1994, Estimating the permeability of reservoir rocks from P-wave velocity and quality factor [abs.], P172, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

McCoy, D.D., and Grieves, W.A., 1994, Use of resistivity logs to calculate water saturation in the Prudhoe Bay field, SPE-28578, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 131-143.

McCoy, D.D., Warner, H.R., Jr., and Fisher, T.E., 1994, Water salinity variations in the Ivishak and Sag River reservoirs, Prudhoe Bay field, SPE-28577, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 117-129.

McGuire, P.L., Spence, A.P., Stalkup, F.I., and Cooley, M.W., 1994, Core acquisition and analysis for optimization of the Prudhoe Bay miscible gas project, SPE/DOE-27759, in SPE/DOE 9th symposium on improved oil recovery, proceedings, v. 1: Society of Petroleum Engineers, p. 253-265. Later published in 1995: SPE Reservoir Engineering, v. 10, no. 2, p. 94-100.

McPhee, C., and Arthur, K., 1994, Relative permeability measurements: an inter-laboratory comparison, paper F, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 13 p. Also published in 1994 as SPE-28826, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 199-211.

Melnyk, D.H., Smith, D.G., and Amiri-Garroussi, K., 1994, Filtering and frequency mapping as tools in subsurface cyclostratigraphy, with examples from the Wessex Basin, UK, in de Boer, P.L. and Smith, D.G., eds., Orbital forcing and cyclic sequences: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 35-46.

Melrose, J.C., 1993, Evaluation of the high-speed centrifuge technique for determining capillary pressure at low wetting-phase saturations: SPE Advanced Technology Series, v. 1, no. 1, p. 108-116.

Mendoza-Amuchastegui, J.A., and Ramirez-Cruz, L.C., 1994, Reconstruction of petrophysical images using cross-well travelttime tomography, SPE-28674, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 61-70.

Menpes, R.J., and Hillis, R.R., 1995, Quantification of Tertiary exhumation from sonic velocity data, Celtic Sea/southwestern approaches, in Buchanan, J.G., and Buchanan, P.G., eds., Basin inversion: Geological Society [London] Special Publication No. 88, p. 191-207.

Mercer, B., Romero, D., Jenner, J., and Shray, F., 1994, Detect fractures when drilling with oil-based mud: Petroleum Engineer International, v. 66, no. 9, p. 29-37.

Merlo, A., Maglione, R., Guillot, F., and Bodin, D., 1994, Temperature field

measurements and computer program predictions under cementing operation conditions, SPE-28822, in European petroleum conference proceedings: Society of Petroleum Engineers, p. 155-164.

Merriam, D.F., Herzfeld, U.C., and Forster, A., 1993, Integration of geophysical data for basin analysis, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1025-1030.

Merrill, M.R., 1993, Local velocity and porosity measurements inside Casper Sandstone using MRI, paper 63E: American Institute of Chemical Engineers, presented at Spring national meeting, 15 p.

Meyer, W.H., 1995, New two frequency propagation resistivity tools, paper XX, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Meyer, W.H., Wu, J-Q., Macune, D.T., and Harvey, P.R., 1994, Near-bit propagation resistivity for reservoir navigation, SPE-28318, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 263-275. Also published as Geosteering with near-bit formation evaluation sensors, SPE-28905: Society of Petroleum Engineers. An extended abstract published in 1995 as, SPE-30142: Journal of Petroleum Technology, v. 47, no.2, p. 117-118.

Mezzatesta, A.G., Eckard, M.H., Payton, C.C., and Strack, K.-M., 1995, Integrated interpretation of galvanic and induction measurements by inversion, SPE-29839, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 597-605.:

Mezzatesta, A.G., Eckard, M.H., and Strack, K.-M., 1995, Integrated 2-D interpretation of resistivity logging measurements by inversion methods, paper E, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 8 p.

Michaels, J., Moody, M., and Shwe, T., 1995, Advances in wireline formation testing, paper BBB, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Michelena, R.J., Ata, E., Sierra, J., 1994, Exploiting P-S converted waves--part 1, modeling the effects of anisotropy and heterogeneities, DP1.2, part 2, application to fractured reservoir, DP1.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 236-243.

Middleton, M.F., 1994, Determination of matrix thermal conductivity from dry drill cuttings: AAPG Bulletin, v. 78, no. 11, p. 1790-1799.

Mijnssen, F.C.J., Weber, K.J., Rozendal, S., and Kool, H., 1992, The effect of horizontal shales on vertical permeability in clastic reservoir rocks, in Spencer, A.M., ed., Generation, accumulation and production of Europe's hydrocarbons II: Springer-Verlag,, Berlin, European Association of Petroleum Geologists Special Publication No. 2, p. 279-289.

Milkereit, B., Green, A., Wu, J., White, D., and Adam, E., 1994, Integrated seismic and borehole geophysical study of the Sudbury igneous complex: Geophysical Research Letters, v. 21, no. 10, p. 931-934.

Miller, M.A., Holder, J., Yang, H., Jamal, Y., Gray, K.E., Fisher, R.S., and Tyler, N., 1993, Petrophysical and petrographic properties of the Ferron Sandstone, topical report:

Gas Research Institute Report GRI-93/0219, variously paginated.

Miller, P.T., 1993, A study of New Jersey coastal aquifers using high-resolution seismic reflection and well-log analysis methods: University of Delaware, Newark, unpublished Ph.D. thesis, 407 p.

Miller, T.W., 1995, New insights on natural hydraulic fractures induced by abnormally high pore pressure: AAPG Bulletin, v. 79, no. 7, p. 1005-1018.

Miner, J., Birkchak, R., Robbins, C., Linyaev, E., Mackie, B., Young, D., and Malloy, R., 1995, Compressional slowness measurements while drilling, paper VV, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Minette, D.C., and Flynn, T., 1995, The accuracy and precision of FEMWD density tool, paper B, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Mirza, N.A., 1992, Geophysical modelling of sediment permeability: Wales, University, unpublished Ph.D. thesis, 202 p.

Mitchell, P., and Brown, G., 1994, The effect of imbibition on the value of the saturation exponent and the implications for depleting reservoirs, paper C, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 14 p.

Mobach, E., and Gussinklo, H.J., 1994, In-situ reservoir compaction monitoring in the Gronigen field, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 535-547

Moline, G.R., and Bahr, J.M., 1995, Estimating spatial distributions of heterogeneous subsurface characteristics by regionalized classification of electrofacies: Mathematical Geology, v. 27, no. 1, p. 3-22.

Molnar, D.L., Aminian, K., and Ameri, S., 1994, The use of well log data for estimating permeability in a heterogeneous reservoir, SPE-29175, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 167-180.

Molz, F.J., Boman, G.K., Young, S.C., Waldrop, W.R., 1994, Borehole flowmeters--field application and data analysis: Journal of Hydrology, v. 163, p. 347-371.

Montemagno, C.D., and Gray, W.G., 1995, Photoluminescent volumetric imaging--a technique for the exploration of multiphase flow and transport in porous media: Geophysical Research Letters, v. 22, no. 4, p. 425-428.

Montone, P., Amato, A. Chiarabba, C., Buonasorte, G., and Fiordelisi, A., 1995, Evidence of active extension in quaternary volcanoes of central Italy from breakout analysis and seismicity: Geophysical Research Letters, v. 22, no. 4, p. 1909-1912.

Moos, D., Hara, S., Phillips, C., Hooks, A., and Tagbor, K., 1995, Field test of acoustic logs for measuring porosity and oi saturation in a mature waterflood in the Wilmington field, California, SPE-29655, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 395-408.

Morin, R.H., and Urish, D., 1993, Hydrostratigraphic characterization of a coastal aquifer by means of geophysical log analysis, Cape Cod National Seashore, Massachusetts, paper M, in 5th international symposium on geophysics for minerals, geotechnical, and environmental applications, proceedings: Society of Professional Well Log Analysts,

Mineral and Geotechnical Logging Society, Chapter-at-Large, 23 p. Later published in 1995: *The Log Analyst*, v. 36, no. 4, p. 27-37.

Morre, J.C., Shipley, T.H., Goldberg, D. and Shipboard Scientific Party, 1995, Abnormal fluid pressures and fault-zone dilation in the Barbados accretionary prism; evidence from logging while drilling: *Geology*, v. 23, no. 7, p. 605-608.

Morriss, C., 1995, CMR and basic log responses, chapter 7, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Mufti, I.R., 1995, Pitfalls in crosshole seismic interpretation as a result of 3-D effects: *Geophysics*, v. 60, no. 3, p. 821-833.

Muhl, D.V., 1993, Borehole logging, in *Geophysical surveys in the permafrost of the Upper Engadin* [in German]: *Mitteilungen der Versuchsanstalt für Wasserbau, Hydrologie und Gaziologie*, no. 122, p. 142-155.

Mulholland, J.W., 1994, Sequence stratigraphic correlation of well-log cross sections: *The Mountain Geologist*, v. 31, no. 3, July, p. 65-75.

Mullen, M., Saga, M., and Frisch, G., 1994, Evaluating completion and stimulation effectiveness of multi-zone wells with production logs, in Gibbs, J.F., ed., *Synergy, equals energy--teams, tools, and techniques*: West Texas Geological Society, Fall Symposium, p. 119-129.

Munkvold, F.R., 1993, Relative permeability and capillary pressure from centrifuge experiments: Trondheim University, Norway, unpublished Ph.D. thesis, 286 p.

Murayama, R., 1994, From amplitude anomalies to physical properties--a quantitative approach: *Oil and Gas Journal*, v. 92, no. 43, October 24, p. 53-60.

Murray, C., Ehrlich, R., Mason, E., and Clark, R., 1994, Evaluation of the diagenetic and structural influences on hydrocarbon entrapment in the Cardium Formation, Deep Basin, western Alberta: *Bulletin of Canadian Petroleum Geology*, v. 42, no. 4, p. 529-544.

Muttoni, A., and Cannatelli, D., 1994, Integration of production log and oxygen activation techniques aimed at the diagnosis of water production problems, SPE-27598, in European production operations conference and exhibition proceedings: Society of Petroleum Engineers, p. 81-92. Also published in 1994: *Journal of Petroleum Technology*, v. 890-898.

Mwenifumbo, C.J., and Pawlowicz, J.G., 1990, Use of spectral gamma for clay mineralogy, chapter 6, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 38 p.

Nakagawa, F.M., Rinehart, S.F., 1994, Investigation of discrepancies in laboratory measurements of liquid permeability, paper SCA-9409, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 97-108.

Narayan, S., and Dusseault, M.B., 1995, Electrical resistance tomography for monitoring shallow enhanced recovery processes, SPE-30259, in International heavy oil symposium proceedings: Society of Petroleum Engineers, 183-194.

Nauroy, J.F., Dubois, J.C., Meunier, J., Marsset, B., Puech, A., Lapierre, F., Kervadec,

J.P., and Kuhn, H., 1995, Tests in offshore Monaco of new techniques for a better integration of geotechnical and seismic data, OTC-7375, in Offshore technology conference proceedings, v. 1: Society of Petroleum Engineers, p. 43-52

Naville, C., Layotte, P.C., Pignard, G., and Guesnon, J., 1994, Well seismic--application of the TRAFOR MWD system to drill-bit seismic profiling [abs.], G045, in 56th meeting and technical exhibition extended abstracts of papers: European Association of Exploration Geophysicists, 2 p.

Naylor, P., and Puckett, D.A., 1994, In-situ saturation distributions--a key to understanding core analysis, paper SCA-9405, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 57-66.

Negrao, D.S. de O., and Luthi, S., 1993, Determining the hydrocarbon saturations in reservoir rocks with fresh formation water, Pilar field, Alagoas--Sergipe basin, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 1, p. 336-339.

Nelson, P.H., and Johnston, D., 1994, Geophysical and geochemical logs from a copper oxide deposit, Santa Cruz project, Casa Grande, Arizona: Geophysics, v. 59, no 12, p. 1827-1838.

Nentwich, F.W., and Yole, R.W., 1994, Wireline log response, petrography and reservoir properties of cored intervals--Kugmallit sequence (Oligocene), Beaufort-Mackenzie Basin, Arctic Canada: Bulletin of Canadian Petroleum Geology, v. 42, no. 4, p. 432-448.

Neretin, V.D., and Chukhovich, V.D., 1995, Interpretation of nuclear magnetic resonance data: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 21 p.

Neuman, C.H., 1978, Log core measurements of oil in place, San Joaquin Valley, SPE-7146: Society of Petroleum Engineers. Later published in 1980: Journal of Petroleum Technology, v. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 152-158.

Nice, S.B., 1993, Production logging in horizontal wellbores, in 5th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 7 p.

Nieto, J.A., Schmitt, D.P. and Keys, R.G., 1995, Removal of borehole induced noise from well logs, paper III, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Nikakhtar, B., Kantzas, A., Wong, F., and Pow, M., 1994, Some observations on the capillary pressure hysteresis using the ultracentrifuge, paper SCA-9423, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 249-262.

Nogi, Y., Tarduno, J.A., and Sager, W.W., 1995, Magnetization of seamount-derived sediments from Site 869 inferred from downhole magnetometer logs, chapter 22, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 373-388.

Nogi, Y., Tarduno, J.A., and Sager, W.W., 1995, Geomagnetic-field variations recorded within drill pipe at Site 865--implications for paleomagnetic studies, chapter 24, in Winterer, E.L., Sager, W.W., Firth, J.V., and Sinton, J.M., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 143: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 389-393

Nolen-Hoeksema, R.C., Avasthi, J.M., Pape, W.C., and El Rabba, A.W.M., 1992, Waterflood improvement in the Permian Basin--impact of in-situ stress evaluations, SPE-24873, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir engineering: Society of Petroleum Engineers, p. 81-91. Later published in 1994: SPE Reservoir Engineering, v. 9, no. 4, p. 254-260.

Nolen-Hoeksema, R.C., Wang, Z., Harris, J.M., Langan, R.T., 1995, High-resolution crosswell imaging of a west Texas carbonate reservoir, part 5--core analysis: Geophysics, v. 60, no. 3, p. 712-726.

Nordtvedt, J.E., Urkedal, H., Watson, A.T., Ebeltoft, E., Kolltveit, K. and Oxnevad, I.E.I., 1994, Estimation of relative permeability and capillary pressure functions using transient and equilibrium data from steady-state experiments, paper SCA-9418, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 197-206.

Nurmi, R., Wiltse, E., and Sapnu, A., 1995, Middle East reservoir characterization improved by data from horizontal wells, SPE-29816, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 445-451.

Okko, O., and Tornqvist, J., 1995, Derivation of conventional geotechnical parameters from nuclear logging tools, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 829-833.

Olea, R.A., 1994, Expert systems for automated correlation and interpretation of wireline logs: Mathematical Geology, v. 26, no. 18, p. 879-897.

Olgaard, P.L., 1991, A model for the pulsed-neutron borehole tools, in 1st Lerkendal petroleum engineering workshop proceedings: Norwegian Institute of Technology, Trondheim, p. 229-239.

Olsen, J.E., Kristensen, R., and Taylor, R.W., 1995, Case histories in the Europe/Africa area demonstrate improved capabilities of fiber-optic video camera technology, SPE-29300, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 421-432.

Olszewski, A.J., Luffel, D.L., Hawkins, J., Zuber, M.D., McLennan, J.D., Schatz, J.F., and Truman, R.B., 1993, Development of formation evaluation technology for coalbed methane development, final report: Gas Research Institute Report GRI-93/0178, variously paginated.

Oraby, M.E., 1995, A lithology independent through casing porosity and water saturation model LIPS, SPE-29516, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 665-682..

Oraby, M.E., Dang, T.T., and Brady, J., 1995, A new quantitative methodology for gas saturation determination and its applications in Prudhoe Bay, paper RR, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Orban, J.J., Dennison, M.S., Jorion, B.M., and Mayes, J.C., 1991, New ultrasonic caliper for MWD operations, SPE/IADC-21947, in SPE/IADC drilling conference proceedings: Society of Petroleum Engineers, p. 439-448. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 184-193.

Ortenzi, A., and Fiorani, M., 1993, Petrographic applications of image analysis, in Spencer, A.M., ed., Generation, accumulations and production of Europe's hydrocarbons III: Springer-Verlag, Berlin, European Association of Petroleum Geologists Special Publication No. 3, p. 369-375.

Ostermeier, R.M., 1993, Some core analysis issues related to deep water Gulf of Mexico turbidites, paper SCA-9315, in Annual technical conference proceedings: Society of Professional Well Log Analysts, Society of Core Analysts Chapter-at-Large, 14 p. Also published in 1993 as, Deepwater Gulf of Mexico turbidites--compaction effects on porosity and permeability, SPE-26468, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 539-551. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 79-85.

Paillet, F.L., 1995, Scale effects in the field determination of aquifer parameters, in Water resources at risk, conference proceedings: American Institute of Hydrology, p. SL-101--SL-110.

Paillet, F.L., 1995, Practical hydraulic tomography in heterogeneous fractured aquifers, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 559-569.

Paillet, F.L., and Ollila, P., 1994, Identification, characterization, and analysis of hydraulically conductive fractures in granitic basement rocks, Millville, Massachusetts: U.S. Geological Survey Water-Resources Investigations Report 94-4185, 38 p.

Pampuri, F., and Puricelli, R., 1993, The use of the complex trace attributes of digital sonic waveforms as a gas indicator in thin shaly-sand sequences in southern Italy, in Spencer, A.M., ed., Generation, accumulations and production of Europe's hydrocarbons III: Springer-Verlag, Berlin, European Association of Petroleum Geologists Special Publication No. 3, p. 259-265.

Pande, P.K., Clark, M.B., Blasingame, T.A., and Doublet, L., 1994, Data acquisition design and implementations--in mature reservoirs, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 65-78.

Parra, J.O., 1995, A feasibility study of high-resolution reverse VSP and interwell seismic methods for hydrocarbon reservoir characterization: The Log Analyst, v. 36, no 3, p. 64-81.

Parra, J.O., Zook, B.J., and Collier, H., 1994, Seismic-guided waves for reservoir continuity at the Gypsy test site, Oklahoma, PP4.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 755-759.

Patterson, D., 1994, Acoustic tools acquire data through casing: American Oil and Gas reporter, v. 37, no. 8, p. 84-87.

Pawlowicz, J.G., and Fenton, M.M., 1990, Detection of bedrock weakened by glacial deformation, chapter 5, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., Downhole geophysics project (1986-1990) final report (revised): Alberta Research Council Information Series 110, 44 p.

Pearson, C., Murphy, J., and Hermes, R., 1986, Acoustic and resistivity measurements on rock samples containing tetrahydrofuran hydrates--laboratory analogues to natural gas hydrate deposits: *Journal of Geophysical Research*, v. 91, no. B14, December 10, p. 14,132-14,138.

Peddy, C.P., Sengupta, M.K., and Fasnacht, T.L., 1995, AVO analysis in high-impedance sandstone reservoirs: *The Leading Edge*, v. 14, no. 8, p. 871-877-

Pedersen, T., and Bjorlykke, K., 1994, Fluid flow in sedimentary basin--model of pore water flow in a vertical fracture: *Basin Research*, v. 6, no. 1, p. 1-16.

Pedler, W.H., Crowder, R.E., Seracuse, J.M., Myers, N.J., Daniel, J., and Haines, L., 1995, Vertical profiling of aquifer flow characteristics and water quality parameters using Hydrophysical logging, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 311-318.

Peng, C., 1994, Borehole effects on downhole seismic measurements: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Perez, J.M., Poston, S.W., Berg, R.R., Friedman, M., Gani, A.F., and Nighswander, J., 1994, Improving the potential to produce oil from naturally fractured reservoirs, SPE-28677, in *SPE international petroleum conference and exhibition of Mexico* proceedings: Society of Petroleum Engineers, p. 97-110.

Peters, C.A., Schultz, P.K., and Cobb, C.C., 1994, Downhole video system for harshest environment: *Sea Technology*, v. 35, no. 7, p. 12-18, 21.

Peters, L., Daniels, J.J., and Young, J.D., 1994, Ground penetrating radar as a subsurface environmental sensing tool: *Proceedings of the IEEE*, v. 82, no. 12, p. 1802-1822.

Petersen, K., and Lerche, I., 1995, Thermal anomalies around evolving salt sheets, OTC-7639, in *27th annual offshore technology conference proceedings*, v. 1: Society of Petroleum Engineers, p. 33-43.

Petersilie, V.I., and Yatsenko, G.G., 1995, Assessment of parameters of oil and gas pools from well logs and core data: *Society of Professional Well Log Analysts*, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 27 p.

Petricola, M.J.C., and Watfa, M., 1995, Effect of microporosity in carbonates--introduction of a versatile saturation equation, SPE-29841, in *9th Middle East oil show and conference proceedings*: Society of Petroleum Engineers, v. 1, p. 607-615.:

Pfister, M., and Rybach, L., 1995, High-resolution digital temperature logging in areas with significant convective heat transfer: *Geothermics*, v. 24, no. 1, p. 95-100.

Pham, A.T., Martyntsev, O.F., and Tran, L.D., 1994, Evaluation of fracture aperture and wettability, capillary properties of oil-bearing fractured granite, paper SCA-9410, in *SCA international symposium proceedings*: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 109-119.

Pinault, J.-L., Daudu, F., Defoix, D., Vachelle, L., and Ducros, J.-B., 1993, Instantaneous neutron activation in shot holes [in French]: *Geologues*, no. 100-101, p. 25-32.

Pinzon, I.D., and Asquith, G.B., 1994, The application of dielectric logs to the recognition of oil versus water-wet reservoirs and in the determination of relative permeabilities, in Gibbs, J.F., ed., *Synergy, equals energy--teams, tools, and techniques*: West Texas Geological Society, Fall Symposium, p. 93-100.

Planke, S., 1994, Geophysical response of flood basalts from analysis of wireline logs; Ocean Drilling Program site 642, Voring volcanic margin: *Journal of Geophysical Research*, v. B99, no. 5, May 10, p. 9279-9296.

Plumb, R.A., 1994, Influence of composition and texture on the failure properties of clastic rocks, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 13-20.

Pocachard, J., Thomas, T., Barthes, V., Pozzi, J.-P., and Pages, G., 1993, In-situ magnetostratigraphic measurements in oil wells [in French]: *Geologues*, no. 100-101, p. 79-83.

Pogacsas, G., Lakatos, L., Ujzaszi, K., Vakarcs, G., Varkonyi, L, Varnai, P., and Revesz, I., 1988, Seismic facies, electrofacies and Neogene sequence chronology of the Pannonian Basin: *Acta Geologica Hungarica*, v. 31, no. 3-4, p. 175-207.

Pospisil, G., Carpenter, C.C., and Pearson, C.M., 1995, Impacts of oriented perforating on fracture stimulation treatments--Kuparuk River field, Alaska, SPE-29645, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 305-311.

Potter, G., and Lyle, G., 1994, Measuring unsteady-state gas displacing liquid relative permeability of high permeability samples, paper SCA-9419, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 207-216.

Powell, B.N., and Lovell, G.L., 1994, Mechanisms of chalk compaction, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 811-818

Praditjan, S., 1990, Calculation of heat flow of the Tertiary basins in the Gulf of Thailand, in 3rd CCOP heat flow workshop proceedings: Coordinating Committee for Offshore Prospecting Report CCOP/TP-21, p. 99-106.

Prammer, M., 1995, Principles of signal processing--NMR data and T2 distributions, chapter 4, in Georgi, D.T., ed., *Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France*: Society of Professional Well Log Analysts, variously paginated.

Pratson, E.L., Broglia, C., Pezard, P., and Harvey, P.K.H., 1995, Data report--geochemical logging results from the eastern equatorial Pacific--Hole 504B, in Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B., eds., *Proceedings of the Ocean Drilling Program, scientific results, v. 137/140*: Texas A&M University, Ocean Drilling Program, College Station, Texas, p. 339-346.

Pratt, C.K., and Hartmann, R.A., 1994, A magnetostatic well tracking technique for drilling of horizontal parallel wells, SPE-28319, in SPE annual technical conference and exhibition proceedings, v. delta, *Drilling*: Society of Petroleum Engineers, p. 277-290.

An extended abstract published in 1995: *Journal of Petroleum Technology*, v. 47, no. 2, p. 119-120.

Prensky, S.E., 1994, Capabilities of MWD tools broadened by advances: *American Oil and Gas Reporter*, v. 37, no. 10, p. 35-41.

Prensky, S.E., 1995, A review of gas hydrates and formation evaluation of hydrate-bearing reservoirs, paper GGG, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Prensky, S.E., 1995, Bibliography of well-log applications, annual update--October 1, 1993 to September 30, 1994: *The Log Analyst*, v. 36, no. 1, p. 57-116.

Prensky, S.E., 1995, Bibliography of well-log applications; Cumulative edition, through September 30, 1994: U.S. Geological Survey Open-File Report OF95-0064, 794 p. Available as digital files in DOS WordPerfect (OF95-0064C) and Macintosh Microsoft Word.(OF95-006B) and via the internet using anonymous FTP at the following site <ftp://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-95-0064/>.

Prensky, S.E., and Anderson, B., 1994, SPWLA computer index, paper CC, in 35th annual logging symposium transactions: Society of Professional Well Log Analysts, 7 p. Later published in 1994: *The Log Analyst*, v. 35, no. 6, p. 60-67.

Pribnow, D.F.C., and Sass, J.H., 1995, Determination of thermal conductivity for deep boreholes: *Journal of Geophysical Research*, v. 100, no. B6, p. 9981-9994.

Pribnow, D., Williams, C.F., Burkhardt, H., 1993, Well log-derived estimates of thermal conductivity in crystalline rocks penetrated by the 4-km deep KTB Vorbohrung: *Geophysical Research Letters*, v. 20, no. 12, p. 1155-1158.

Prilipko, I.P., 1994, New parameters in differentiation of complex collectors [reservoirs], using logging data: *Geophysical Journal*, v. 14, no. 1, p. 107-112.

Prins, M., Smits, R.M.M., and Schutjens, P.M.T.M., 1995, Predicting compaction and subsidence for an immature gasbearing carbonate field, SPE-29273, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 195-202.

Proett, M.A., Waid, M.C., and Kessler, C., 1994, Real time transient analysis methods applied to wireline formation test data, SPE-28449, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 891-906.

Prosser, D.J., and Maskall, R., 1993, Permeability variation within aeolian sandstone--a case study using core cut sub-parallel to slipface bedding, the Auk field, central North Sea, UK, in North, C.P., and Prosser, D.J., eds., Characterization of fluvial and aeolian reservoirs: Geological Society [London] Special Publication No. 73, p. 377-397.

Prussmann, J., 1994, Averaging sonic and impedance logs at variable intervals, BG3.5, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 82-85.

Pu, Z., 1993, Permeability estimation from log-derived porosity via classical and fuzzy regression and cokriging: University of Alabama, Tuscaloosa, unpublished MS thesis, 146 p.

Raforth, R.L., and Jehn, J.L., 1990, Preliminary results from the coring of the Denver Basin aquifers, in Groundwater engineering and management conference proceedings:

Colorado Water Resources Research Institute, p. 247-258.

Ramamoorthy, R., Murphy, W.F., and Coll, C., 1995, Total porosity estimation in shaly sands from shear modulus, paper H, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Ramm, M., Bjorlykke, K., 1994, Porosity/depth trends in reservoir sandstones-- assessing the quantitative effects of varying pore-pressure, temperature history and mineralogy, Norwegian shelf data: *Clay Minerals*, v. 29, p. 475-490.

Ramos, A.C.B., Davis, T.L., Anderson, J.E., and Benson, R.D., 1994, AVO analysis and modeling applied to fracture detection in coalbed methane reservoirs, Cedar Hill field, San Juan Basin, New Mexico, DP1.4, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 244-247.

Rasmus, J.C., and Stephens, D.M.R.G., 1990, Real-time pore pressure evaluation utilizing MWD/LWD measurements and drilling-derived formation strength, SPE-20443, in SPE annual technical conference and exhibition, proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 403-411. Later published in 1991: *SPE Drilling Engineering*, v. 6, no. 4, December, p. 264-272. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 130-138.

Rathmell, J.J., and Warner, H.R., Jr., 1994, Mechanisms controlling filtration at the core bit for oil-base muds, SPE-28596, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 335-346.

Rathmell, J.J., Warner, H.R., Jr., Tibbits, G.A., Gremley, R.B., and White, E.K., 1990, Development of a method for partially uninvaded coring in high-permeability sandstone, SPE-20413, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling, p. 89-100. Later published in 1995 as, Rathmell, J.J., Tibbits, G.A., Gremley, R.B., Warner, H.R., Jr., and White, E.K.: *SPE Formation Evaluation*, v. 10, no. 2, p. 65-71.:

Rauen, A., and Lastovickova, M., 1995, Investigation of electrical anisotropy in the deep borehole KTB: *Surveys in Geophysics*, v. 16, p. 37-46

Rauen, A., and Soffel, H.C., 1995, Determination of electrical resistivity, its anisotropy and heterogeneity on drill cores--a new method: *Geophysical Prospecting*, v. 43, p. 283-298.

Razi, M., Morriss, S.L., and Podio, A.L., 1995, Characterizing flow through a perforation using ultrasonic doppler, SPE-29544, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 943-953.

Rea, K.A., 1992, A prototype high resolution borehole magnetic susceptibility tool: Queen's University, Kingston, Ontario, Canada, unpublished MS thesis 57 p.

Rector, J.W., III, 1995, Crosswell methods--where are we, where are we going?: *Geophysics*, v. 60, no. 6, p. 629-630.

Reed, R.L., Humphrey, R.A., Holstein, E.D., and Rathmell, J.J., 1994, IFT and flushing studies to validate as-received oil-base-core water saturations from the Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28594, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of

Petroleum Engineers, p. 319-326.

Reif, L.T., and Kinsland, G.L., 1993, Analysis of the relationship between seismic amplitudes and gas content of the Miocene Amos Sandstone, Marry Ann field, offshore Alabama: Gulf Coast Association of Geological Societies Transactions, v. 43, p. 327-332.

Remelje, C.W., 1994, Statistical method to determine whether a wireline water sample is 100% mud filtrate, SPE-28796, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 517-526.

Renlie, L., 1994, Multipole logging in a formation with stress-relief-induced anisotropy: Geophysics, v. 59, no 12, p. 1806-1812.

Renoux, P., 1993, Identification of potassic sequences in an evaporitic series [in French]: Geologues, no. 100-101, p. 49-54.

Renoux, P., and Etienne, C., 1992, 3-D seismic and well logging study of a west Siberian lowland oil and gas field--application to petrophysical characterization, in Sheriff, R.E., ed., Reservoir geophysics: Society of Exploration Geophysicists, v. 259-280.

Reyes, M.V., 1993, The application of fluorescence techniques for mudlogging analysis of oil drilled with oil-based muds, SPE-25255, in SPE Asia Pacific oil and gas conference and exhibition proceedings: Society of Petroleum Engineers, p. 319-336. Later published in 1994: SPE Formation Evaluation, v. 9, no. 4, p. 300-305.

Richardson, J.G., and Holstein, E.D., 1994, Comparison of water saturations from capillary pressure measurements with oil-base-mud core data Ivishak (Sadlerochit) reservoir, Prudhoe Bay field, SPE-28593, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 311-318.

Richardson, J.G., Holstein, E.D., Rathmell, J.J., and Warner, H.R., Jr., 1994, Investigation of as-received oil-bas-core water saturations from the Ivishak reservoir, Prudhoe Bay field, SPE-28592, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 303-318.

Robertson, E.P., Bala, G.A., and Thomas, C.P., 1994, Laboratory methods for enhanced oil recovery core floods: U.S. Department of Energy Report DOE/ID/01570-T171, 17 p.

Robin, M., and Rosenberg, E., and Fassi-Fihri, O., 1991, Wettability studies at the pore level--a new approach by use of cryo-SEM, SPE-22596, in SPE annual technical conference and exhibition proceedings, v...: Society of Petroleum Engineers, p. Later published in 1995: SPE Formation Evaluation, v. 10, no. 1, p. 11-19.

Robson, S.G., 1993, Techniques for estimating specific yield and specific retention from grain-size data and geophysical logs from clastic bedrock aquifers: U.S. Geological Survey Water-Resources Investigations Report 93-4198, 19 p.

Roca R., L., and Singer, J., 1991, Predicting borehole stability from wireline logs, in 10th technical conference proceedings, part 1: Society of Petroleum Engineers, Trinidad and Tobago Section, p. 47-57.

Roca-Ramisa, L., Mendoza, J., and Sanchez-Galindo, M.A., 1994, Evaluation of

fracture distribution and continuity in carbonate reservoirs using wellbore imaging tools, SPE-28676, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 81-96.

Rodney, P.F., Mack, S.G., Bittar, M.S., Bartel, R.P., 1991, An MWD multiple depth of investigation electromagnetic wave resistivity sensor, paper D, in 32nd annual logging symposium transactions: Society of Professional Well Log Analysts, 25 p. A similar paper also published in 1991 as, Bittar, M.S., Rodney, P.F., Mack, S.G., and Bartel, R.P., A true multiple depth of investigation electromagnetic wave resistivity sensor--theory, experiment, and prototype field test results, SPE-22705: Society of Petroleum Engineers, presented at 66th Annual Technical Conference and Exhibition [not included in proceedings], 18 p. A condensed version later published in 1992 as, Mack, S.G., Rodney, P.F., and Bittar, M.S., MWD tool accurately measures four resistivities: Oil and Gas Journal, v. 90, no. 21, May 25, p. 42-46. Later published in 1993: SPE Formation Evaluation, v. 8, no. 3, p. 171-176. Later reprinted in 1995, in Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, p. 155-160.

Roestenburg, J.W., 1994, Carbonate characterization and classification from in-situ wellbore images, paper IPA94-1-1-115, in 23rd annual convention proceedings, v. 1: Indonesia Petroleum Association, Jakarta, p. 181-188.

Rollin, K.E., 1995, A simple heat-flow quality function and appraisal of heat-flow measurements and heat-flow estimates from the UK geothermal catalogue: Tectonophysics, v. 244, no. 1-3, p. 185-196.

Roperch, P., Barthes, V., Pocachard, J., Collot, J.-Y., and Chabernaud, T., 1994, Magnetic logging and in-situ magnetostratigraphy--a field test, chapter 33, in Greene, H.G., Collot, J.-Y., Tokking, L.B., et al., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 134: Ocean Drilling Program, Texas A&M University, College Station, p. 577-589.

Roscoe, B., Grau, J., Minh, C.C., and Freeman, D., 1995, Non-conventional applications of through-tubing carbon-oxygen logging tools, paper QQ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Rouillac, D., 1994, Cement evaluation logging handbook: Editions Technip, 176 p.

Rowe, M.M., and Gettrust, J.F., 1994, Methane hydrate content of Blake Outer Ridge sediments, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: Annals of the New York Academy of Science, v. 715, p. 492-494.

Roy, K.K., and Dutta, D.J., 1994, Borehole dc resistivity response for a transitional invaded zone: Geophysics, v. 59, no. 12, p. 1796-1805.

Ruffet, C., Darot, M., and Gueguen, Y., 1995, Surface conductivity in rocks--a review: Surveys in Geophysics, v. 16, p. 83-105.

Rutherford, S., Parchman, M., Turpening, W., Chon Y.-T., and Kahn, T., 1995, Connectivity mapping while drilling improves reservoir analysis:

Saarenketo, T., 1995, The use of dielectric and electrical conductivity measurements and ground penetrating radar for frost susceptibility evaluations of subgrade soils, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering

Geophysical Society, p. 73-85.

Sabatier, L., 1994, Comparative study of drainage capillary pressure measurements using different techniques for different fluid systems, paper SCA-9424, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 263-274.

Safanda, J., 1994, Effects of topography and climatic changes on the temperature in borehole GFU-1, Prague: Tectonophysics, v. 239, p. 187-197.

Sagot, A.M., and Dupuis, D.C., 1994, A major step in ultra slimhole drilling, SPE-28299, in SPE annual technical conference and exhibition proceedings, v. delta, Drilling: Society of Petroleum Engineers, p. 81-90.

Saha, S., Al-Kaabi, A., Amabeoku, M.O., and Al-Fossail, K., 1995, Core-log integration for a Saudi Arabian sandstone reservoir, SPE-29867, in SPE Middle East oil show proceedings, v. 1: Society of Petroleum Engineers, p. 293-309.

Saha, S., Drager, L., and Asquith, G.B., 1994, Simulating the Archie parameters--computer program and example from the Permian strata of west Texas: Computers and Geosciences, v. 20, no. 1, p. 41-45.

Sakurai, S. and Loucks, R.G., and Gardner, J.S., 1995, NMR core analysis of Lower San Andres/Glorieta/Upper Clear Fork (Permian) carbonates--central basin platform, west Texas, paper M, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Salem, H.S., 1992, A theoretical and practical study of petrophysical, electrical, and elastic parameters of sediments: Christian Albrechts University, unpublished Ph.D. thesis, 221 p.

Salem, H.S., 1994, The electric and hydraulic anisotropic behavior of the Jeanne d'Arc basin reservoirs: Journal of Petroleum Science and Engineering, v. 12, p. 49-66.

Salimullah, A.R.M., 1993, Wireline sedimentology--resedimented volcanoclastites: Southampton University, England, unpublished Ph.D. thesis.

Salimullah, A.R.M., and Stow, D.A.V., 1995, Ichnofacies recognition in turbidites/hemiturbidites using enhanced FMS images--examples from ODP Leg 129: The Log Analyst, v. 36, no. 4, p. 38-49.

Samworth, J., Spencer, M., Patel, H., and Attack, N., 1994, The Array Induction Tool advances slim-hole logging technology, paper Y, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 14 p.

Sanders, L., 1994, Well log evaluation of the Wolfcamp sandstones, Terrell County, Texas, in Gibbs, J.F., ed., Synergy, equals energy--teams, tools, and techniques: West Texas Geological Society, Fall Symposium, p. 87-92.

Sanders, R.L., 1994, The fracture intensity log--a proven technique for evaluating fracturing in low-permeability reservoirs, SPE-25894, in SPE international petroleum conference and exhibition of Mexico proceedings: Society of Petroleum Engineers, p. 9-16.

Sandor, R., Bonnie, R., Tutunjian, P., and Ferris, J., 1994, Frequency dependence of NMR measurements on rock samples, paper L, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter,

8 p.

- Saner, S., Cagatay, M.N., and Al Fossail, K., 1994, Shaliness effect on the log-derived Archie cementation factor--study of a Saudi Arabian sandstone reservoir: *The Log Analyst*, v. 35, no. 6, p. 16-27.
- Santarelli, F.J., 1994, Rock mechanics characterization of deep formations--a technico-economical overview, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 3-12.
- Santarelli, F.J., and Carminati, S., 1995, Do shales swell?--A critical review of available evidence, SPE/IADC-29421, in *SPE/IADC drilling conference proceedings: Society of Petroleum Engineers*, p. 741-756.
- Sanyal, S.K., Robertson-Tait, A., Kramer, M., and Buening, N., 1993, Some aspects of geopressed resources in California: *Geothermal Resources Council Transactions*, v. 17, p. 175-180.
- Sasaki, Y., 1994, Anisotropic resistivity tomography--a model study for characterization of fractured rocks, DP1.6, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 252-255.
- Sass, J.H., Lachenbruch, A.H., Galanis, S.P., Jr., Morgan, P., Priest, S.S., Moses, T.H., Jr., and Munroe, R.J., 1994, Thermal regime of the southern Basin and Range Province--part 1, heat flow data from Arizona and the Mojave Desert of California and Nevada: *Journal of Geophysical Research*, v. 99, no. B11, p. 22,093-22,119.
- Sato, M., Miwa, T., and Niitsuma, H., 1995, Application of polarimetric borehole radar to crack characterization, paper FFF, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 12 p.
- Saunders, M.R., Shields, J.A., and Taylor, M.R., 1994, Digitizing rocks?--standardizing the process of geological description using workstations, SPE-27542, in *European petroleum computer conference proceedings: Society of Petroleum Engineers*, p. 23-38. Later published in 1995, in brief format as, SPE-30972: *Journal of Petroleum Technology*, v. 47, no. 6, p. 510-511.
- Sauvagnac, S., Ledoux, E., Calmels, P., and Gaillard, B., 1991, Measurement of natural flow velocities in the Chassole deep borehole--GPF 3 program: *Bulletin de la Societe geologique de France*, v. 162, no. 5, p. 917-924.
- Schenewerk, P., Goddard, D., and Echols, J., 1994, Reservoir characterization and preliminary modeling of deltaic facies, Lower Wilcox, Concordia Parish, Louisiana: *Gulf Coast Association of Geological Societies Transactions*, v. 44, p. 664-674.
- Schlueter, E.M., 1993, Predicting the transport properties of sedimentary rocks from microgeometry: *Lawrence Berkeley National Laboratory Report LBL-33830*, 85 p.
- Schlueter, E.M., Myer, L.R., Cook, N.G.W., and Witherspoon, P.A., 1992, Formation factor and the microscopic distribution of wetting phase in pore space of Berea Sandstone: *Lawrence Berkeley National Laboratory Report LBL-33207*, 22 p.
- Schlueter, E.M., Zimmerman, R.W., Cook, N.G.W., and Witherspoon, P.A., 1994, Perimeter-area power-law relationship of pores in sedimentary rocks and implications for permeability, DP4.1, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 315-318.
- Schnorr, D.R., 1995, Optimizing water injection profiles with oxygen activation logging,

SPE-29517, in SPE production operations symposium proceedings: Society of Petroleum Engineers, p. 683-691.

Schoenberg, M., and Sayers, C., 1993, Seismic anisotropy of fractured rocks, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1511-1515.

Schroeder, T., Mathis, D., Howard, R., Williams, G., and Sun, J., 1995, Teamwork and geosteering pay off in horizontal project: Oil and Gas Journal, v. 93, no. 9, February 27, p.33-38.

Seguin, M.K., and Frydecki, J., 1990, Geophysical detection and possible estimation of ice content in permafrost in northern Quebec: The Leading Edge, v. 9, no. 10, p. 25-29.

Seiler, D., 1995, Borehole visualization in 3-D, paper UUU, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Selner, G.I., and Taylor, R.B., 1992, System 8: U.S. Geological Survey Open-File Report OF 92-0372A, B, 83 p. + 1 diskette. [Programs to assist workers in the earth sciences in using geodetic or Cartesian XYZ data from row column (GSPV85) fields; GSPDC, contours and grids interpolated from triangulated network; PCS, graphic sections; GSPUV, univariate statistics and histograms; GSPROB, probability diagrams; GSPXY, regression statistics and XY plots; GSPTD, ternary diagrams; and GSPV85 post-plots, for IBM PC compatible computers.]

Serebryakov, V.A., and Chilingar, G.V., 1995, Abnormal pressure regime in the former USSR petroleum basins: Journal of Petroleum Science and Engineering, v. 13, p. 65-74.

Serebryakov, V.A., Chilingar, G.V., and Katz, S.A., 1995, Methods of estimating and predicting abnormal formation pressure: Journal of Petroleum Science and Engineering, v. 13, p. 113-123.

Shaaban, F.F., 1994, A new approach to analytical correction of dual laterologs: Computers and Geosciences, v. 20, no. 7/8, p. 1259-1262.

Shen, P.Y., Pollack, H.N., Huang, S., and Wang, K., 1995, Effects of subsurface heterogeneity on the inference of climate change from borehole temperature data--model studies and field examples from Canada: Journal of Geophysical Research, v. 100, no. B4, p. 6385-6396.

Sherrard, D.W., 1995, Prediction and evaluation of horizontal well performance--North Slope, Alaska: Petroleum Geoscience, v. 1, no. 1, p. 3-11.

Siegesmund, S., Vollbrecht, A., Chlupac, T., Nover, G., Durrast, H., Muller, J., and Weber, K., 1993, Fabric-controlled anisotropy of petrophysical properties observed in KTB core samples: Scientific Drilling, v. 4, p. 31-54.

Sim, S.K., Seyler, B., and Udegbumam, E.O., 1994, An integrated geologic and engineering study of the Plumfield lease Aux Vases reservoirs, Zeigler field, Franklin County, Illinois: Illinois State Geological Survey, Illinois Petroleum No. 146, 29

Singer, B.S., Fanin, O., Strack, K.-M., Tabarovsky, L.A., and Zhang, X., 1995, Through-casing resistivity: 2-D and 3-D distortions and correction techniques, paper PP, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Singh, S.C., and Minshull, T.A., 1994, Velocity structure of a gas hydrate reflector at

Ocean Drilling Program site 889 from a global-seismic waveform inversion: *Journal of Geophysical Research*, v. 99, no. B12, December 10, p. 24-221-24,233.

Singh, S.C., and Suryanarayana, G., 1995, Hydrogeological characterization of water wells through geophysical logs in Deccan Trap of M.P., India, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 289-297.

Skauge, A., and Larsen, J. A., 1994, Three-phase relative permeabilities and trapped gas measurements related to WAG processes, paper SCA-9421, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 227-236.

Skelt, C., 1995, An integrated approach to saturation height analysis, paper NNN, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 10 p.

Skopec, R.A., Collee, P.E., van Puymbroeck, L., and Shallenberger, L.K., 1995, Downhole core preservation for improved formation evaluation, paper ZZ, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Skopec, R.A., and Ross, C.P., 1994, Amplitude-versus-offset interpretation, scaling factors, and other challenges associated with acoustic data integration, paper SCA-9417, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 183-196.

Sloan, E.D., Jr., 1990, Clathrate hydrates of natural gases: Marcel Dekker, Inc., New York, ? p.

Sloan, E.D., Jr., 1991, Natural gas hydrates, SPE-23562: *Journal of Petroleum Technology*, v. 43, no. 12, p. 1414-1417.

Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., 1994, International conference on natural gas hydrates proceedings: *Annals of the New York Academy of Science*, v. 715, 579 p.

Smalley, P.C., Dodd, T.A., Stockden, I.L., Raheim, A., and Mearns, E.W., 1995, Compositional heterogeneities in oilfield formation waters--identifying them, using them, in Cubitt, J.M., and England, W.A., eds, *The geochemistry of reservoirs: Geological Society [London] Special Publication No. 86*, p. 59-69.

Smalley, P.C., and Warren, E.A., 1994, North Sea formation waters--implications for diagenesis and production chemistry: *Marine and Petroleum Geology*, v. 11, no. 1, p. 2-4.

Smith, Bubba, 1994, Logging and production problems associated with clay-bound Jackson Series sandstones: *South Texas Geological Society Bulletin*, v. 34, no. 6, p. 11-20.

Smith, S.L., and Judge, A., 1994, The distribution of natural gas hydrates in Canada, in Sloan, E.D., Jr., Happel, J., and Hnatow, M.A., eds., International conference on natural gas hydrates proceedings: *Annals of the New York Academy of Science*, v. 715, p. 495-497.

Smits, A.R., Fincher, D. V., and Nishida, K., Mullins, O.C., and Schroeder, R.J., 1993,

In-situ optical fluid analysis as an aid to wireline formation sampling, SPE-26496, in SPE annual technical conference and exhibition proceedings, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. 807-817. Later published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 91-98.

Sneider, R.M., and Erickson, J.W., 1994, Rock types, depositional history, and diagenetic effects--Sadlerochit reservoir, Prudhoe Bay field, SPE-28575, in SPE annual technical conference and exhibition proceedings, v. sigma, Reservoir Engineering, v. 1: Society of Petroleum Engineers, p. 85-100.

Sneider, R.M., King, H.R., Stolper, K.K., Kulha, J.T., 1995, Impact of Archie "m" on evaluating conventional and low resistivity pay [abs.], in 1995 AAPG annual convention official program, v. 4, Houston: AAPG, p. 90A. Text and figures of poster are available from BK Geo Services, 11991 Cochise Circle, Conifer, CO 80433.

Society of Petroleum Engineers, 1994, Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, ? p.

Society of Petroleum Engineers, 1995, Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40, ? p.

Sorensen, M., and Ward, R., 1994, Pulsed neutron capture logging in the Scott Field, paper DD, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 12 p.

Soto B., R., and Soto T., C., 1995, An object oriented expert system to enhance log analysis of the Columbian Basins, SPE-30196, in Petroleum computer conference proceedings: Society of Petroleum Engineers, p. 153-158.

Soudet, H.-J., Sorriaux, P., and Rolando, J.-P., 1994, Relationship between fractures and karstification; the oil bearing paleokarst of Rospo Mare (Italy) [in French]: Bulletin des Centres de Recherches Exploration-Production Elf Aquitaine, v. 18, no. 1, p. 257-297.

Spencer, C.W., Szalay, A., and Tatar, E., 1994, Abnormal pressure and hydrocarbon migration in the Bekes Basin, in Teleki, P.G., et al., eds., Basin analysis in petroleum exploration: Kluwer, Academic Publishers, p. 201-219.

Spies, B.R., and Ellis, R.G., 1995, Cross-borehole resistivity tomography of a pilot-scale, in-situ vitrification test: Geophysics, v. 60, no. 3, p. 886-898.

Spies, B.R., and Habashy, T.M., 1995, Sensitivity analysis of crosswell electromagnetics: Geophysics, v. 60, no. 3, p. 834-845.

Spross, R.L., Burnett, T.M., Golla, C.A., and Huiszoon, C., 1995, Accurate MWD density measurements with very large standoffs, paper UU, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Stalheim, S.O., and Eidesmo, T., 1995, Is the saturation exponent 'n' a constant?, paper SSS, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 11 p.

Starcher, M.G., Murphy, J.R., Alexander, P.D., and Whittaker, J.L., 1995, Video camera log used for water isolation in the Main Body "B" pool, Elk Hills field, Kern County, California--water and oil, SPE-29654, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 383-394.

Starkey, J., and Samantaray, A.K., 1994, A microcomputer-based system for

quantitative petrographic analysis: *Computers and Geosciences*, v. 20, no. 9, p. 1285-1296.

Stiles, J.H., Jr., and Hutfilz, J.M., 1988, The use of routine and special core analysis in characterizing Brent group reservoirs, U.K. North Sea, SPE-18386, in SPE European petroleum conference [London] proceedings: Society of Petroleum Engineers, p. 475-491. Later published in 1992: *Journal of Petroleum Technology*, v. 44, no. 6, p. 704-713. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 180-189.

Straley, C., Morriss, C.E., Kenyon, W.E., and Howard, J.J., 1991, NMR in partially saturated rocks: laboratory insights on free fluid index and comparison with borehole logs, paper CC, in 32nd annual logging symposium transactions: Society of Professional Well Log Analysts, 25 p. Later published in 1994: *The Log Analyst*, v. 36, no. 1, p. 40-56.

Straley, C., Rossini, D., Schwartz, L.M., Stromski, M.E., Hrovat, M., and Patz, S., 1992, Particle filtration in sandstone cores--application of a chemical shift imaging technique, SCA-9217, in 6th annual technical conference preprints [33rd SPWLA annual logging symposium transactions, v. 3]: Society of Core Analysts, Society of Professional Well Log Analysts Chapter-at-Large, 24 p. Later published in 1995: *The Log Analyst*, v. 36, no. 2, p. 42-51.

Straley, C., Rossini, D., Vinegar, H., Tutunjian, P., and Morriss, C., 1994, Core analysis by low field NMR, paper SCA-9404, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 43-56.

Strathouse, E.C., 1995, Whole core of middle Pleistocene pay zones in Garden Banks block 171, Gulf of Mexico, in *Turbidites and associated deep-water facies: SEPM [Society for Sedimentary Geology] Core Workshop No. 20*, p. 131-147.

Stule, P., 1995, Return to thermal equilibrium of an intermittently drilled hole--theory and experiment: *Tectonophysics*, v. 241, p. 35-45.

Sullivan, K.B., and Schepel, K.J., 1995, Borehole image logs--applications in fractured and thinly bedded reservoirs, paper T, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Swanson, B.F., 1979, A simple correlation between permeabilities and mercury capillary pressures, SPE-8234: Society of Petroleum Engineers, presented at 54th annual technical conference and exhibition, preprint. Later published in 1981: *Journal of Petroleum Technology*, v. 33, no. 12, p. 2498-2504. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 138-144.

Swanson, B.F., 1985, Microporosity in reservoir rocks--Its measurement and influence on electrical resistivity, paper F, in 26th annual logging symposium transactions: Society of Professional Well Log Analysts, 17 p. Later published in 1985: *The Log Analyst*, v.26, no. 6, November-December, p. 42-52. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 94-104.

Tan, C.P., Willoughtby, D.R., Hillis, R.R., Zhou, S., Muhlhaus, H-B., and Aoki, T., 1994, Well-bore instability in the northwest shelf of Australia: APEA [Australian Petroleum Exploration Association] *Journal*, v. 34, part 1, p. 3-18.

Tang, X.M., Reiter, E.C., and Burns, D.R., 1995, A dispersive-wave processing technique for estimating formation shear velocity from dipole and Stoneley waveforms: *Geophysics*, v. 60, no. 1, January-February, p. 19-28.

Tao, G., King, M.S., and Nabi-Bidhendi, M., 1995, Ultrasonic wave propagation in dry and brine-saturated sandstones as a function of effective stress--laboratory measurements and modelling: *Geophysical Prospecting*, v. 43, p. 299-327.

Ten Katge, W.G.H.Z., Sprenger, A., Steens, T.N.F., and Beets, C.J., 1994, Late Quaternary monsoonal variations in the western Arabian Sea based on cross-spectral analyses of geochemical and micropaleontological data (ODP Leg 117, core 728A), in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 127-143.

Thakur, A., Arnold, J.R., and Schweitzer, J.S., 1995, Application of continuum analysis to borehole gamma-ray spectra obtained from the German Continental Deep Drilling Project: *Nuclear Geophysics*, v. 9, no. 1, p. 19-33.

Thiercelin, M., Desroches, J., and Kurkjian, A., 1994, Open hole stress tests in shales, in *Rock mechanics in petroleum engineering, Eurock '94 proceedings*: A.A. Balkema, Rotterdam, p. 921-929.

Thiercelin, M.J., and Plumb, R.A., 1991, Core-based prediction of lithologic stress contrasts in east Texas formations, SPE-21847, in *SPE Rocky Mountain regional meeting/low permeability reservoirs symposium proceedings*: Society of Petroleum Engineers, p. Later published in 1994: *SPE Formation Evaluation*, v. 9, no. 4, p. 251-258.

Thirion, N., Mars, J., Volant, P., Mari, J.L., 1994, Wavelet transform--application to acoustic logging: *Revue de l'Institut Francais du Petrole*, v. 49, no. 2, p. 149-163.

Thomerson, M.D., 1992, *Petrophysical analysis of the Brushy Canyon Formation, Hat Mesa Delaware field, Lea County, New Mexico*: Texas Tech University, Lubbock, Texas, unpublished MS thesis, 124 p.

Thompson, A.H., Katz, A.J., and Raschke, R.A., 1987, Estimation of absolute permeability from capillary pressure measurements, SPE-16794, in *SPE annual technical conference and exhibition proceedings*, v. omega, Formation evaluation and reservoir geology: Society of Petroleum Engineers, p. ? Later reprinted in 1994, in *Petrophysics*: Society of Petroleum Engineers Reprint Series No. 39, p. 145-151.

Thompson, M.D., McGinnis, L.D., Wilkey, P.L., and Fasnacht, T., 1995, Compressional wave character in gassy, near-surface sediments in southern Louisiana determined from variable frequency cross-well borehole logging and surface seismic measurements, in Bell, R.S., compiler, *Symposium on the application of geophysics to engineering and environmental problems [SAGEEP]*, proceedings: Environmental and Engineering Geophysical Society, p. 579-590.

Thornhill, J.T., and Benefield, B.G., 1992, Detecting water flow behind pipe in injection wells: U.S. Environmental Protection Agency Report EPA/600/R-92/041, 82 p.

Ti, G., Ogbe, D.O., Munly, W., and Hatzignatiou, D.G., 1993, The use of flow units as a tool for reservoir description--a case study, SPE-26919, in *Eastern regional conference and exhibition proceedings*: Society of Petroleum Engineers, p. 293-306. Later

published in 1995: SPE Formation Evaluation, v. 10, no. 2, p. 122-128.

Timur, A., 1968, An investigation of permeability, porosity, and residual water saturation relationships for sandstone reservoirs, paper J, in 9th annual well logging symposium transactions: Society of Professional Well Log Analysts, 18 p. Later published in 1968: The Log Analyst, v. 9, no. 4, July-August, p. 8-17. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 128-137.

Tingey, J.C., Nelson, R.J., and Newsham, K.E., 1995, Comprehensive analysis of Russian petrophysical measurements, paper S, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Tompkins, B.C., 1990, An integrated core-well log study and stratigraphic correlation of the Lower Cretaceous Mannville Group, Lloydminster sub-basin, west-cent Saskatchewan and east-central Alberta: Calgary University, Calgary, Alberta, unpublished M.S. thesis, 372 p.

Toporkov, V.G., and Duzin, V.I., 1995, Oil saturation determination in grauwacke reservoirs with abnormally high water saturation: Society of Professional Well Log Analysts, preprint, presented at, Russian log interpretation workshop, 36th Annual Logging Symposium, Paris, 8 p.

Torres-Verdin, C., and Habashy, T.M., 1995, Cross-well electromagnetic tomography, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1400-1405.

Truman, R.B., Howard, W.A., Davies, D.K., and Vessell, R.K., 1986, Utilization of rock characterization data to improve well log interpretation, paper V, in 27th annual logging symposium transactions: Society of Professional Well Log Analysts, 19 p. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 159-179.

Tuan, P.A., Martyntsev, O.F., and Dong, T.L., 1994, Evaluation of fracture aperture and wettability, capillary properties of oil-bearing fractured granite, paper SCA-9410, in SCA international symposium proceedings: Society of Professional Well Log Analysts, Society of Core Analysts, Chapter-at-Large, p. 109-120.

Udegbumam, E.O., and Numbere, D.T., 1994, Model for locating fluids' contracts [sic] in petroleum reservoirs, SPE-29193, in Eastern regional conference and exhibition proceedings: Society of Petroleum Engineers, p. 321-327.

Uswak, G., and McLafferty, N., 1993, Cement imaging through ultrasonics, paper 93-302, in CADE/CAODC Spring drilling conference proceedings: Canadian Association of Drilling Engineers, Calgary, Alberta, 12 p.

Vail, W.B., and Momii, S.T., Haines, H., Gould, J.F., Jr., and Kennedy, W.D., 1995, Formation resistivity measurements through metal casing at the MWX-2 well in Rifle, Colorado, paper OO, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

van Berlo, A., Darling, T., and Keller, J., 1994, Hydrocarbon saturation determination from cores in a north sea high pressure/temperature gas condensate well, paper E, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 3 p.

van den Bosch, R., 1994, Logging with coiled tubing less effective than with drill pipe,

paper Q, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 10 p.

van den Bosch, R., Fulop, A., and Pistre, V., 1995, Permeability prediction from well logs--a case study in German Rotliegend sandstones, paper NN, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

van der Harst, L., 1994, Borehole gravimeter data acquisition and technology evaluation, final report: Gas Research Institute Report 94/0210, 590 p.

van Echelpoel, E., 1994, Identification of regular sedimentary cycles using Walsh spectral analysis with results from the Boom Clay Formation, Belgium, in de Boer, P.L. and Smith, D.G., eds., Orbital forcing and cyclic sequences: Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 63-76..

Vasseur, G., Brigaud, F., and Demongodin, L., 1995, Thermal conductivity estimation in sedimentary basins: Tectonophysics, v. 244, no. 1-3, p. 167-174.

Verm, R., and Hilterman, F., 1995, Lithology color-coded seismic sections--the calibration of AVO crossplotting to rock properties: The Leading Edge, v. 14, no. 6, p. 847-853.

Verma, M.K., Boucerit, M.A.G., and Bouvier, L., 1991, Evaluation of residual oil saturation after waterflood in a carbonate reservoir, SPE-21371, in SPE 7th Middle East oil show conference proceedings: Society of Petroleum Engineers, p. 305-320. Later published in 1994: SPE Reservoir Engineering, v. 9, no. 4, p. 247-253.

Vernik, L., Hickman, S., Lockner, D., and Rusanow, M., 1994, Ultrasonic velocities in cores from the Kola superdeep well and the nature of subhorizontal seismic reflections: Journal of Geophysical Research, v. 99, no. B12, December 10, p. 24,209-24,219.

Vernik, L., Liu, X., and Nur, A., 1994, Effect of kerogen on velocity anisotropy in source rocks, DP4.3, in Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists, p. 323-326.

Villinger, H.W., Langseth, M.G., Groschel-Becker, H.M., and Fisher, A.T., 1994, Estimating in-situ thermal conductivity from log data, chapter 32, in Mottl, M.J., Davis, E.E., Fisher, A.T., and Slack, J.F., eds., Proceedings of the Ocean Drilling Program, scientific results, v. 139: Ocean Drilling Program, Texas A&M University, College Station, p. 545-552.

Vinegar, H.J., 1986, X-ray CT and NMR imaging of rocks, SPE-15277: Journal of Petroleum Technology, v. 38, no. 3, p. 257-259. Later reprinted in 1994, in Petrophysics: Society of Petroleum Engineers Reprint Series No. 39, p. 115-117.

Vinegar, H., 1995, Relaxation mechanisms, chapter 3, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Vinegar, H., 1995, NMR log interpretation with examples, chapter 8, in Georgi, D.T., ed., Nuclear magnetic resonance logging short course notes, 36th annual symposium, Paris, France: Society of Professional Well Log Analysts, variously paginated.

Virnovsky, G.A., Guo, Y., Vatne, K O., and Braun, E.M., 1994, Pseudo steady state technique for relative permeability measurements, paper SCA-9420, in SCA international symposium proceedings: Society of Professional Well Log Analysts,

Society of Core Analysts, Chapter-at-Large, p. 217-226.

Vo-Thanh, D., 1995, Influence of fluid chemistry on shear-wave attenuation and velocity in sedimentary rocks: *Geophysical Journal International*, v. 121, no. 3, p. 737-749.

Wade, N.H., 1990, Geotechnical parameters, chapter 3, in Hoffman, G.L., Fenton, and Pawlowicz, J.G., eds., *Downhole geophysics project (1986-1990) final report (revised)*: Alberta Research Council Information Series 110, 39 p.

Walker, J.P., and Fortmann, R.G., 1994, Enhanced oil recovery utilizing high-angle wells in the Frontier Formation, Badger Basin field, Park County, Wyoming: U.S. Department of Energy Report DOE/BC/14950-4, variously paginated,

Walls, J.D., and Dvorkin, J., 1991, Measured and calculated horizontal stresses in the Travis Peak Formation, SPE-21843, in *SPE Rocky Mountain regional meeting/low permeability reservoirs symposium proceedings*: Society of Petroleum Engineers, p. Later published in 1994: *SPE Formation Evaluation*, v. 9, no. 4, p. 259-263.

Walls, J.D., Dvorkin, J., and Mavko, G., 1994, In-situ stress magnitude and azimuth from well log measurements, topical report: Gas Research Institute Report No. 94/0271, 50 p.

Wang, K., Lewis, T.J., Belton, D.S., and Shen, P.-Y., 1994, Differences in recent ground surface warming in eastern and western Canada; evidence from borehole temperatures: *Geophysical Research Letters*, v. 21, no. 24, p. 2689-2692.

Ward, C.D., Coghill, K., Broussard, M.D., 1994, The application of petrophysical data to improve pore and fracture pressure determination in North Sea central graben HPHT wells, SPE-28297, in *SPE annual technical conference and exhibition proceedings*, v. delta, Drilling: Society of Petroleum Engineers, p. 53-68.

Warlaw, N.C., 1983, Rock texture, pore structure wettability--neglected parameters in well log interpretations of fluid saturations?: *Canadian Well Logging Society Journal*, v. 12, p. 89-98. Later reprinted in 1994, in *Petrophysics*: Society of Petroleum Engineers Reprint Series No. 39, p. 105-114.

Warren, E.A., and Smalley, P.C., eds., 1994, *North Sea formation water atlas*: The Geological Society [London] Memoir No. 15, 208 p.

Warrilow, I.M., Ibrahim, R., Chin, H.T., and Forsyth, D., 1995, Application of resistivity inversion software to thin-bed evaluation, SPE-29263, in *SPE Asia Pacific oil and gas conference proceedings*: Society of Petroleum Engineers, p. 123-138.

Weaver, J.S., and Stewart, J.M., 1982, In situ hydrates under the Beaufort Sea shelf, in *4th Canadian permafrost conference proceedings*: Natural Research Council of Canada, Roger J.E. Brown Memorial Volume, p. 312-319. : National Research Council of Canada, 268-273. Later published in 1983 as, Stewart, J.M., and Weaver, J.S., *Permafrost and hydrates under the Beaufort Sea*, paper K, in *24th annual logging symposium transactions*: Society of Professional Well Log Analysts, 18 p.

Wei, J.Z., 1993, Influence of wettability and saturation history on resistivity measurements in porous media: Trondheim University, Norway, unpublished Ph.D. thesis, 180 p.

Wensaas, L., Shaw, H.F., Gibbons, K., Aagaard, P., and Dypvik, H., 1994, Nature and causes of overpressuring in mudrocks of the Gullfaks area, North Sea: *Clay Minerals*, v. 29, p. 439-449.

Werner, K.S., 1990, Direction of maximum horizontal compression in western Oregon determined by borehole breakouts: Oregon State University, Corvallis, unpublished MS thesis, 159 p.

Wheildon, J., Morgan, P., Williamson, K.H., Evans, T.R., and Swanberg, C.A., 1994, Heat flow in the Kenya rift zone: *Tectonophysics*, v. 236, p. 131-149.

White, D.J., Milkereit, B., Wu, J.J., Salisbury, M.H., and Mwenifumbo, J., 1994, Seismic reflectivity of the Sudbury structure North Range from borehole logs: *Geophysical Research Letters*, v. 21, no. 10, May 15, p. 935-938.

White, J., 1992, Planning for the unexpected in evaluating horizontal wells, in 4th World Oil horizontal well technology international conference proceedings: Gulf Publishing Company, Houston, 8 p.

Whitman, W.W., 1995, Interpretation of unfocused resistivity logs: *The Log Analyst*, v. 36, no. 1, p. 35-39

Whitworth, K.R., and Jackson, P.J., 1993, Use of wellbore seismics to explore for carbon in the UK [in French]: *Geologues*, no. 100-101, p. 59-66.

Wiener, J., Rogers, J., and Moll, B., 1993, Predicting permeability from wireline logs using a back-propagation neural network, in Conference on artificial intelligence in petroleum exploration and production, proceedings: ? Later published in 1995: *Petroleum Engineer International*, v. 68, no. 5, p. 18-19, 23-24.

Wilhelm, H., Baumann, C., and Zoth, G., 1995, Some results of temperature measurements in the KTB main borehole, Germany: *Geothermics*, v. 24, no. 1, p. 101-113.

Wilhelm, H., Rabbel, W., Luschen, E., Li, Y.-D., and Bried, M., 1994, Hydrological aspects of geophysical borehole measurements in crystalline rocks of the Black Forest: *Journal of Hydrology*, v. 157, p. 325-347.

Wilhelms, A., Carpentier, B., and Huc, A.Y., 1994, New methods to detect tar mats in petroleum reservoirs: *Journal of Petroleum Science and Engineering*, v. 12, p. 147-155.

Williams, C., Jackson, P., Lovell, M., Harvey, P., and Reece, G., 1994, Numerical simulation of downhole electrical conductance imaging, paper O, in 16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter, 10 p.

Williams, C.F., Galanis, S.P., Jr., Grubb, F.V., and Moses, T.H., Jr., 1995, The thermal regime of Santa Maria province, California: *U.S. Geological Survey Bulletin* 1995-F, 25 p.

Wilt, M., 1992, Monitoring of thermal enhanced oil recovery processes with electromagnetic methods: Lawrence Livermore National Laboratory Report No. UCRL-JC-111579, 15 p.

Wilt, M., 1994, Reservoir characterization and process monitoring with EM methods: U.S. Department of Energy Report DOE/BC/94000147, 10 p.

Wilt, M.J., Alumbaugh, D.L., Morrison, H.F., Becker, A., Kee, K.H., and Deszcz-Pan, M., 1995, Crosswell electromagnetic tomography--system design considerations and field results: *Geophysics*, v. 60, no. 3, p. 871-885.

Wilt, M., Morrison, H.F., Becker, A., and Tseng, H-W., Lee, K., Torres-Verdin, C., and Alumbaugh, D., 1995, Crosshole electromagnetic tomography--a new technology for oil

field characterization: *The Leading Edge*, v. 14, no. 3, p. 173-177.

Wilt, M., Schenkel, C., Torres-Verdin, C., Lee, K., and Tseng, H., 1994, Crosshole EM for oil field characterization and EOR monitoring--field examples, WS2.4, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 1676-1679.

Winkler, K.W., 1994, Laboratory observations of azimuthal velocity variations caused by borehole stress concentrations, SL3.5, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 1133-1135.

Winkler, K., Plona, T., Hsu, C-J., Sinha, B.K., and Kostek, S., 1994, Effects of borehole stress concentrations on dipole anisotropy measurements, SL3.6, in *Expanded abstracts with biographies, 1994 technical program: Society of Exploration Geophysicists*, p. 1136-1138.

Witherbee, K.G., and Hoffman, K.L., 1990, Aquifer characterization in the northern San Juan Basin, Colorado, using borehole geophysical logs, in *Groundwater engineering and management conference proceedings: Colorado Water Resources Research Institute*, p. 397-405.

Withers, R., Eggers, D., Fox, T., and Crebs, T., 1994, A case study of integrated hydrocarbon exploration through basalt: *Geophysics*, v. 59, no 11, p. 1666-1679.

Wolcott, D.S., Shafer, D., and Vittachi, A., 1995, Characterization of a heterogeneous formation using azimuthal logging-while-drilling (LWD) measurements, paper Y, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 8 p.

Wong, P.M., Gedeon, T.D., and Taggart, I.J., 1995, The use of fuzzy ARTMAP for lithofacies classification--a comparison study, paper U, in *36th annual logging symposium transactions: Society of Professional Well Log Analysts*, 12 p.

Wong, P.M., Jian, F.X., and Taggart, I.J., 1995, A critical comparison of neural networks and discriminant analysis in lithofacies, porosity, and permeability predictions: *Journal of Petroleum Geology*, v. 18 no. 2, p. 191-206.

Wong, P.M., Taggart, I.J., and Jian, F.X., 1994, Integration of seismic, wireline logs, and core data into a genetic characterisation framework: *APEA [Australian Petroleum Exploration Association] Journal*, v. 34, part 1, p. 337-349.

Worthington, P., 1994, Verification of water-saturation algorithms through dual-salinity desaturations, paper B, in *16th European formation evaluation symposium transactions: Society of Professional Well Log Analysts, Aberdeen Chapter*, 29 p.

Worthington, P., 1995, Estimation of intergranular permeability from well logs: *Dialog [quarterly newsletter of the London Petrophysical Society]*, v. 3, no. 3, p. 7-10.

Wraight, P., Evans, M., Marienbach, E., Rhein-Knudsen, E., and Best, D., 1989, Combination formation density and neutron porosity measurements while drilling, paper B, in *30th annual logging symposium transactions: Society of Professional Well Log Analysts*, 23 p. Later reprinted in 1993, in *Measurement while drilling: Society of Professional Well Log Analysts Reprint Series*, p. 211-234. Later reprinted in 1995, in *Measurement while drilling: Society of Petroleum Engineers Reprint Series No. 40*, p. 161-183.

Wright, C.A., Conant, R.A., Golich, G.M., Bondor, P.L., Murer, A.S., and Dobie, C.A., 1995, Hydraulic fracture orientation and production/injection induced reservoir stress

changes in diatomite waterfloods, SPE-29625, in SPE western regional meeting proceedings: Society of Petroleum Engineers, p. 139-152.

Wright, D.L., Grover, T.P., Labson, V.F., Pellerin, L., Ellefsen, K.J., and Bradley, J.A., 1995, Tomography between wells, a transient dielectric logging tool, and the very early time electromagnetic (VETEM) system, in Bell, R.S., compiler, Symposium on the application of geophysics to engineering and environmental problems [SAGEEP], proceedings: Environmental and Engineering Geophysical Society, p. 501-510.

Wu, H., Willemsse, J.M., and Pollard, D.D., 1994, Prediction of fracture density and drainage distance in layered rock masses using borehole data, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 487-494.

Wu, J., 1994, An algorithm based upon the Biot-Geertsma-Gassmann equations to generate compressibilities and seismic velocities for porous fluid-saturated rocks: Brigham Young University, Provo, Utah, unpublished MS thesis, 169 p. Similar paper published in 1995 as, Benson, A.K., and Wu, J., Using the Biot-Geertsma-Gassmann equations to estimate (a) porous rock compressibilities and (b) seismic velocities for porous, fluid-filled rocks, in Caliendo, J.A., ed., 31st annual symposium on engineering geology and geotechnical engineering, proceedings: Utah State University, p. 208-227.

Wu, R-S., Xu, Z., and Li, X-P., 1994, Heterogeneity spectrum and scale-anisotropy in the upper crust revealed by the German Continental Deep-Drilling (KTB) holes: Geophysical Research Letters, v. 21, no. 10, p. 911-914.

Wyatt, D.F., Jr., Jacobsen, L.A., and Fox, P., 1994, Enhanced carbon-oxygen log interpretation using supplemental log curves, SPE-28758, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 165-172.

Xu, H., Fear, M., Whelehan, O., Ford, J., and Jensen, J., 1995, How to organise mud logging data for modelling rate of penetration, SPE-29252, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 31-38

Xu, H., Fear, M., Whelehan, O., Ford, J., and Jensen, J., 1995, How to organise mud logging data for modelling rate of penetration, SPE-29252, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 31-38.

Xu, S., and White, R., 1995, Poro-elasticity of clastic rocks--a unified model, paper V, in 36th annual logging symposium transactions: Society of Professional Well Log Analysts, 12 p.

Xu, S., and White, R.E., 1995, A new velocity model for clay-sand mixtures: Geophysical Prospecting, v. 43, p. 91-118.

Yale, D.P., Rodriguez, J.M., Mercer, T.B., and Blaisdell, D.W., 1994, In-situ stress orientation and the effects of local structure--Scott field, North Sea, in Rock mechanics in petroleum engineering, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 945-953.

Yamamoto, T., Nye, T., Kuru, M., 1994, Porosity, permeability, shear strength--crosswell tomography below and iron foundry: Geophysics, v. 59, no. 10, p. 1530-1541.

Yang, C-S., and Kouwe, W.F.P., 1995, Wireline log-cyclicity analysis as a tool for dating and correlating barren strata--an example from the Upper Rotliegend of The Netherlands, in Dunay, R.E., and Hailwood, E.A., eds, Non-biostratigraphical methods of dating and correlation: Geological Society [London] Special Publication No. 89, p.

237-259.

Yang, C.S., and Baumfalk, Y.A., Milankovitch cyclicity in the Upper Rotliegend Group of The Netherlands offshore, in de Boer, P.L. and Smith, D.G., eds., *Orbital forcing and cyclic sequences*, : Blackwell Scientific Publications, International Association of Sedimentologist Special Publication No. 19, p. 47-61.

Yang, Y.S., Thompson, C.J., and McCarthy, J.F., 1994, The generation of grid block permeabilities from core data, SPE-28753, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 127-134.

Yassir, N.A., and Bell, J.S., 1994, Abnormally high fluid pressures and associated porosities and stress regimes in sedimentary basins, in *Rock mechanics in petroleum engineering*, Eurock '94 proceedings: A.A. Balkema, Rotterdam, p. 879-886.

Yassir, N.A., and Bell, J.S., 1994, Relationships between pore pressure, stresses, and present-day geodynamics in the Scotian Shelf, offshore eastern Canada: AAPG Bulletin, v. 78, no. 12, p. 1863-1880.

Yildiz, T., and Bassiouni, Z., 1992, Interpretation of wireline formation test data in tight gas sands, paper 92-20, in 43rd annual technical meeting preprints, v. 2: CIM Petroleum Society, Calgary, Canada, 10 p.

Yilmaz, O., Nolen-Hoeksema, R.C., and Nur, A., 1994, Pore pressure profiles in fractured and compliant rocks: *Geophysical Prospecting*, v. 42, p. 693-714.

Yu, K.N., Young, C.M., Stokes, M.J., and Guan, Z.J., 1995, Determination of sedimentation rates in eastern sea areas of Hong Kong with gamma-ray spectrometry: *Nuclear Geophysics*, v. 9, no. 1, p. 73-81.

Yuan, H., 1995, NMR logging--the new measurement: *Shell International Petroleum Maatschappij*, 8 p.

Yuan, H.H., and Swanson, B.F., 1986, Resolving pore-space characteristics by rate-controlled porosimetry, SPE-14892, in SPE enhanced oil recovery symposium proceedings, v. 1: Society of Petroleum Engineers, p. 167-180. Later published in 1989: *SPE Formation Evaluation*, v. 4, no. 1, p. 17-24. Later reprinted in 1994, in *Petrophysics: Society of Petroleum Engineers Reprint Series No. 39*, p. 44-51.

Yun, X., 1992, Statistical characteristics of velocity distribution and linear pseudo-velocity logs, in *Advances in China's earth science: Oriental Earth Science Series*, v. 1, p. 241-254.

Zainalabedin, K.A., and Minh, C.C., 1995, Applications of the Array Induction Tool in Saudi Arabia, SPE-29837, in 9th Middle East oil show and conference proceedings: Society of Petroleum Engineers, v. 1, p. 581-596.:

Zainun, K., and Rice, M.L., 1995, Optimized exploration resource evaluation using the MDT tool, SPE-29270, in SPE Asia Pacific oil and gas conference proceedings: Society of Petroleum Engineers, p. 177-194.

Zalen, T.A., Henshaw, P.C., Abels, H.P., II, Owens, B.K., Guo, D.S., Salaita, G.N., and Mikulich, W., 1995, Pulsed neutron spectroscopy logs add value to steam flood management process by monitoring oil saturation in Kern River field, California, SPE-29650, in Western regional meeting proceedings: Society of Petroleum Engineers, p. 347-358.

Zech, R.S., and Keighin, C.W., 1993, Porosity and permeability data for the Point

Lookout Sandstone from core holes 1HCMS and 2HCMS, northern San Juan Basin, La Plata County, Colorado: U.S. Geological Survey Open-File Report OF 93-0306, 180 p.

Zemel, B., 1995, Tracers in the oil field: Elsevier Science, Amsterdam, *Developments in Petroleum Science* No. 43, 487 p.

Zemel, B., 1995, Measurements and applications, chapter 2, in *Tracers in the oil field*: Elsevier Science, Amsterdam, *Developments in Petroleum Science* No. 43, p. 39-87.

Zemel, B., 1995, Unconventional waterflood tracing, chapter 5, in *Tracers in the oil field*: Elsevier Science, Amsterdam, *Developments in Petroleum Science* No. 43, p. 191-242.

Zemel, B., 1995, Downhole tracers, chapter 7, in *Tracers in the oil field*: Elsevier Science, Amsterdam, *Developments in Petroleum Science* No. 43, p. 293-369.

Zhang, Y-C., Shen, L.C., and Liu, C., 1994, Inversion of induction logs based on maximum flatness, maximum oil, and minimum oil algorithms: *Geophysics*, v. 59, no. 9, p. 1320-1326.

Zhao, X., 1994, Effects of heterogeneities on fluid flow and borehole permeability measurements: Massachusetts Institute of Technology, unpublished Ph.D. thesis.

Zhou, H.-W., Ebrom, D.A., McDonald, J.A., and Link, C., 1993, Characterization of lithology using crosshole methods, in 3rd international congress expanded abstracts: Brazilian Geophysical Society, Rio de Janeiro, v. 2, p. 1526-1531.

Zhou, S., 1994, A program to model the initial shape and extent of borehole breakout: *Computers and Geosciences*, v. 20, no. 7/8, p. 1143-1160.

Zimmerle, W., 1995, Sedimentological interpretation of well logs, chapter 2, sedimentological investigations, in *Petrology sedimentology*: Ferdinand Enke Publishers, Stuttgart, p. 71-107.

Zizi, K., 1994, Dry rock model prediction to be used in Biot-Gassmann-Domenico equations for computing acoustic properties of a carbonate rock, PP7.1, in *Expanded abstracts with biographies, 1994 technical program*: Society of Exploration Geophysicists, p. 814-817.

Zoback, M.D., and Peska, P., 1995, In-situ stress and rock strength in the BBRN/DOE Pathfinder well, south Eugene Island, Gulf of Mexico, SPE-29233: Society of Petroleum Engineers, unsolicited manuscript. Later published in 1995: *Journal of Petroleum Technology*, v. 47, no. 7, p. 582-585.

Zuber, M.D., Frantz, J.H., Jr., and Gatens, J.M., III, 1994, Reservoir characterization and production forecasting for Antrim Shale wells--an integrated reservoir analysis methodology, SPE-28606, in *SPE annual technical conference and exhibition proceedings*, v. sigma, *Reservoir Engineering*, v. 1: Society of Petroleum Engineers, p. 471-485.

Zuber, M.D., Vonieff, G.W., Frantz, J.H., Jr., and Gatens, J.M., III, 1994, Characterization of Michigan Antrim Shale reservoirs based on analysis of field-level data, SPE-29169, in *SPE eastern regional conference proceedings*: Society of Petroleum Engineers, p. 123-134