

Nuclear Magnetic Resonance (NMR) Technical Papers: 1993 –2000

Authored and co-authored by Schlumberger

SPWLA Annual Logging Symposium: 1993-2000

- **A novel Application of Nuclear Magnetic Resonance and Formation Tester Data for the Determination of Gas Saturation in Pretty Hill Sandstone Reservoirs, Onshore Otway Basin;** (2000 SPWLA, paper J) R. Ramamoorthy, T. Neville (Schlumberger), P. Boulton (Boral Energy Resources Ltd.).
- **Formation Evaluation in Southern Mexico's Low-Porosity Fractured Carbonate Rocks using Imaging and NMR Tools;** (2000 SPWLA, paper L) J. Mengual, L. Recinos, E. Ho (Schlumberger), F Hernandez (Permex).
- **High-Resolution Bound-Fluid and Total Porosity with Fast NMR logging;** (2000 SPWLA, paper V) N. Heaton, C. Coa Minh, R Freedman and C. Flaum (Schlumberger)
- **Distinguishing Reservoir Flow Units Using NMR High-Resolution Permeability Computation: The Obigbo North-10ST Example;** (SPWLA 2000, paper BB) M. Esho, R. Simon (SPDC), L. Onuigbo (Schlumberger).
- **Saturation Estimations from Magnetic Resonance Measurements in Carbonates;** (2000 SPWLA, paper HHH) C. Flaum, U. Guru, S. Banerjee (Schlumberger)
- **An Improved NMR Tool Design for Faster Logging;** (1999 SPWLA, paper CC) D. McKeon, C. Minh, R. Freedman, R. Harris, D. Wills, D. Davies, G. Gubelin, R. Oldigs, M. Hurlimann (Schlumberger)
- **Combining NMR and Formation Tester Data for Optimum Hydrocarbon Typing, Permeability and Producibility Estimation;** (1999 SPWLA, paper GG) C. Castelijns, R. Badry, E. Decoster, C. Hyde (Schlumberger)
- **Using NMR and Electrical Logs for Enhanced Evaluation of Producibility and Hydrocarbon Reserves in Gas Reservoirs with High Irreducible Water Saturation;** (1999 SPWLA, paper HH) S. Hussein, S. Hassan, (Petrobel); T. Klimentos, A. Boyd, A. Zeid, (Schlumberger)
- **New Interpretation Methodology Based on Forward Models for Magnetic Resonance in Carbonates;** (1999 SPWLA, paper MMM) T. Ramakrishnan, E. Fordham, L. Venkataramanan, M. Flaum, L. Schwartz, (Schlumberger)
- **An NMR High-Resolution Permeability Indicator;** (1999 SPWLA, paper NNN) A. Sezginer, C. Minh, N. Heaton, M. Herron, R. Freedman, (Schlumberger); G. Van Dort, (Amerada Hess UK)
- **Applications of Fast NMR Logging in Shaly Gas-Bearing Sands Invaded by Oil Filtrate;** (1999 SPWLA, paper QQQ) M. Petricola (Schlumberger Overseas S.A.); X. Troussaut, (Elf Petroleum Asia B.V.)
- **Combining NMR and Density Logs for Petrophysical Analysis in Gas-Bearing Formations;** (1998 SPWLA, paper II) R. Freedman, C. Cao Minh, G. Gubelin (Schlumberger Oilfield Services.); T. McGinness, B. Terry, (Amoco Prod.); J. Freeman, (Shell E&P Tech. Co.); D. Rawlence, (Woodside Offshore Petrol.)
- **Using Consonant-Measurement Sensors for a More Accurate Log Interpretation;** (1998 SPWLA, paper NN) P. Casu, (AGIP S.p.a.); M. Andreani, W. Klopff, (Schlumberger Wireline & Testing)
- **Forward Models for Nuclear Magnetic Resonance in Carbonate Rocks;** (1998 SPWLA, paper SS) T. Ramakrishnan, L. Schwartz, E. Fordham, W. Kenyon, D. Wilkinson, (Schlumberger)
- **NMR Formation Evaluation Applications in a Complex Low-Resistivity Hydrocarbon Reservoir;** (1998 SPWLA, paper TT) C. Slot-Petersen, (Statoil E&P); T. Eidesmo, H. Rueslatten, (Statoil Research Ctr.); J. White, (Schlumberger Wireline & Testing)
- **Bound Water Volume, Permeability and Residual Oil Saturation from Incomplete Magnetic Resonance Logging Data;** (1998 SPWLA, paper UU) R. Kleinberg, C. Flaum, (Schlumberger-Doll); J. Bedford, (Schlumberger Wireline & Testing)
- **Case Studies of Nuclear Magnetic Resonance in the Texas and Louisiana Gulf Coast Area;** (1998 SPWLA, paper YY); R. Guest, M. Di Giovanni, S. Smith, O. Walter, (Texaco E&P); J. Musselman, T. Pickens, S. Crary, (Schlumberger Oilfield Services.)
- **Measurement of Total NMR Porosity Adds New Value to NMR Logging;** (1997 SPWLA, paper OO); R. Freedman, A. Boyd, G. Gubelin, D. McKeon and C. Morriss, (Schlumberger Wireline & Testing); C. Flaum, (Schlumberger-Doll Research)

- **NMR Applications in the Gulf of Mexico;** (1997 SPWLA, paper PP); S. Crary, (Schlumberger Wireline & Testing); F. Pellegrin, (Texaco E&P Inc.) B. Simon, (Chevron USA Production Co.)
- **Fast NMR Logging for Bound Fluid & Permeability;** (1997 SPWLA, paper YY); J. Singer, L. Johnston, (Schlumberger Wireline & Testing); R. Kleinberg, C. Flaum, (Schlumberger-Doll Research)
- **Identification of Gas with the Combinable Magnetic Resonance Tool (CMR*);** (1996 SPWLA, paper L); C. Flaum, R. Kleinberg, M. Hurlimann, (Schlumberger-Doll Research)
- **A New Petrophysical Interpretation Model for Clastic Rocks Based on NMR, Epithermal Neutron and Electromagnetic Logs;** (1996 SPWLA, paper M); P. Gossenberg, G. Galli, (AGIP S.p.a.); M. Andreani, W. Klopff, (Schlumberger)
- **Effective Porosity, Producible Fluid and Permeability in Carbonates from NMR Logging;** (1994 SPWLA, paper A); D. Chang, H. Vinegar, (Shell Development Co.); C. E. Morriss, (Schlumberger Wireline & Testing); C. Straley, (Schlumberger-Doll Research)
- **Hydrocarbon Saturation and Viscosity Estimation from NMR Logging in the Belridge Diatomite;** (1994 SPWLA, paper C); C. Morriss, R. Freedman, (Schlumberger Wireline & Testing); C. Straley, (Schlumberger-Doll Research); M. Johnston, (Shell Western E&P, Inc.); H. J. Vinegar, P. N. Tutunjian (Shell Development Co.)
- **Field Test of an Experimental Pulsed Nuclear Magnetism Tool;** (1993 SPWLA, paper GGG); C. E. Morriss, J. MacInnis, R. Freedman, J. Smaardyk, (Schlumberger Well Services); C. Straley, W. E. Kenyon, (Schlumberger-Doll Research); H. J. Vinegar, P. N. Tutunjian (Shell Development Co.)

SPE Annual Technical Conference: 1995 – 2000

- **Integrating Core Measurements and NMR Logs in Complex Lithology;** (2000, SPE 63211) R. Agut, B. Levallois (Elf Exploration), W. Klopff (Schlumberger)
- **NMR Logging Improves Wellsite Efficiency, Completion Decisions, and Formation Evaluation in a Freshwater, Shaly Reservoir;** (2000, SPE 63213) J-J. Moraes, R. Bramdao, Ricardo Tellez, J. Vallejo (Petrobras Intl.) G. Garcia (Schlumberger), J. Singer (Consultant)
- **A New NMR Method of Fluid Characterization in Reservoir Rocks: Experimental Confirmation and Simulation Results;** (2000, SPE 63214) R. Freedman, A. Sezginer, M. Flaum, A. Metteson (Schlumberger), S. Lo, G.J. Hirasaki (Rice University)
- **Low Field NMR Tool for Bitumen Sands Characterization: A New Approach;** (1999, SPE 56764) K.D. Mirotnich and K. Allsop, (TIPM Laboratory); A. Kantzas, (TIPM Laboratory/U. of Calgary); D. Curwen, (Suncor Energy); and R. Badry, (Schlumberger of Canada)
- **Sonic-Magnetic Resonance Method: A Sourceless Porosity Evaluation in Gas-Bearing Reservoirs;** (1999, SPE 56767) C. C. Minh, W.G. Gubelin, and R. Ramamoorthy, (Schlumberger) and S. McGeoch, (Shell Co. of Australia)
- **Comparison of Permeability from NMR and Production Analysis in Carbonate Reservoirs;** (1999, SPE 56798) L. Quintero and A. Boyd, (Schlumberger); and A. Gyllensten and F El-Wazeer; (A.D.C.O.)
- **NMR Relaxation of Clay-Brine Mixtures;** (1998, SPE 49008) A. Matteson, J. P. Tomanic, M. M. Herron, D. F. Allen, W. E. Kenyon (Schlumberger-Doll Research)
- **Quantitative NMR Interpretation;** (1998, SPE 49010) D. E. Cannon, C. C. Minh, (Schlumberger Sugar Land Product Center); R. L. Kleinberg, (Schlumberger-Doll Research)
- **Integration of NMR with Other Openhole Logs for Improved Formation Evaluation;** (1998, SPE 49012) C. C. Minh, R. Freedman, S. Crary, D. E. Cannon, (Schlumberger Sugar Land Product Center)
- **Tapered Cutoffs for Magnetic Resonance Bound Water Volume;** (1997, SPE 38737) R. L. Kleinberg, A. Boyd, (Schlumberger)
- **Practical Application of NMR Logging in Carbonate Reservoirs;** (1997, SPE 38740) W. D. Logan, J. P. Horkowitz, R. Laronga, (Schlumberger Wireline & Testing); D. Cromwell, (BC Operating)
- **Processing of Data from an NMR Logging Tool;** (1995, SPE 30560) R. Freedman, C. E. Morriss, (Schlumberger Well Services)

- **Lithology-Independent, High-Resolution Porosity Logs;** (1995, SPE 30561) A. Boyd, E. Head, W. G. Gubelin, (Schlumberger Wireline & Testing)

NMR Commitment