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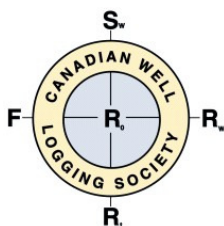
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Notes: Please forward this notice
to any potentially interested co-
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Tuesday, October 13th, 2009 CWLS TECHNICAL LUNCHEON PRESENTATION FAIRMONT PALLISER HOTEL 133, 9TH AVE. S.W. CALGARY

TIME: 12:00 PM (COCKTAILS AT 11:30 AM)

RESERVATIONS BY: Friday, October 9th, 2009 (NOON) - CALL 269-9366 TO CONFIRM A SEAT

COST: MEMBERS RESERVED MEAL: \$35.00; NON-MEMBERS RESERVED MEAL: \$40.00
(SPECIAL NEEDS MEALS AVAILABLE WITH ADVANCED BOOKING ONLY; PLEASE
REQUEST WHEN ORDERING TICKET)

TOPIC: An Unconventional Approach to Unconventional Reservoirs

SPEAKER: David C. Herrick, PhD

ABSTRACT:

The rocks for which Archie (1942) devised his saturation equation were clean sandstones with only inter-granular porosity and without complications such as thin inter-beds, bimodal pore systems or gradations in grain size. Archie discovered that he could obtain simple relationships between his formation resistivity factor and porosity as well as between the resistivity index and saturation if he used graph paper with log-log scales. His use of a graphical logarithmic transformation resulted in the power-law relationships that have become the industry standard and have attained the status of a “law.”

Many, if not most, reservoir rocks we are faced with at present do not fit the lithologic criteria required to be “Archie rocks” for which his equation is appropriate. Rather than attempt to modify Archie’s equation for uses for which it was not intended, it is better to emulate Archie’s approach: seek relationships between electrical properties, porosity and saturation and use them.

Examples are given to demonstrate a more general approach to developing relationships useful for predicting saturation and permeability for several kinds of non-Archie rocks.

BIOGRAPHY

Dave Herrick has recently retired and is now consulting. Dave is an innovative petrophysicist with more than 30 years experience in the petroleum industry. He was trained in chemistry and geochemistry at Indiana University (B.S.) and Penn State (Ph.D.). He has conducted research, training and technical service for Conoco, Amoco, Mobil and Baker Hughes in the areas of geochemistry, petrology and petrophysics. Dave has many publications as well as having given numerous presentations and schools on petrophysics, resistivity interpretation, and the impact of pore geometry on permeability and conductivity.