

## **AN EMPIRICAL METHOD FOR EVALUATION OF CAPILLARY PRESSURE DATA**

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**ABSTRACT** An empirical method for the evaluation of capillary pressure data is presented. This method, an extension from Wright and Wooddy (1955), relate water saturation, permeability and capillary pressure in one equation. The method is well suited for computer processing.

Water saturations, as functions of permeability and capillary pressure, are compared with the corresponding predictions from a similar method by Johnson (1987), from the Leverett J-function and from the Caplog method (multilinear regression) used by Alger et al. (1989)

Capillary pressure data from 120 core samples from 6 different reservoirs were used in the comparison.

Based on each methods capability to predict the observed relationship between input parameters and the raw capillary pressure data it was found that the new method was superior to the Leverett J-function in all cases, in general superior to the Caplog method and equal to the Johnson method.