

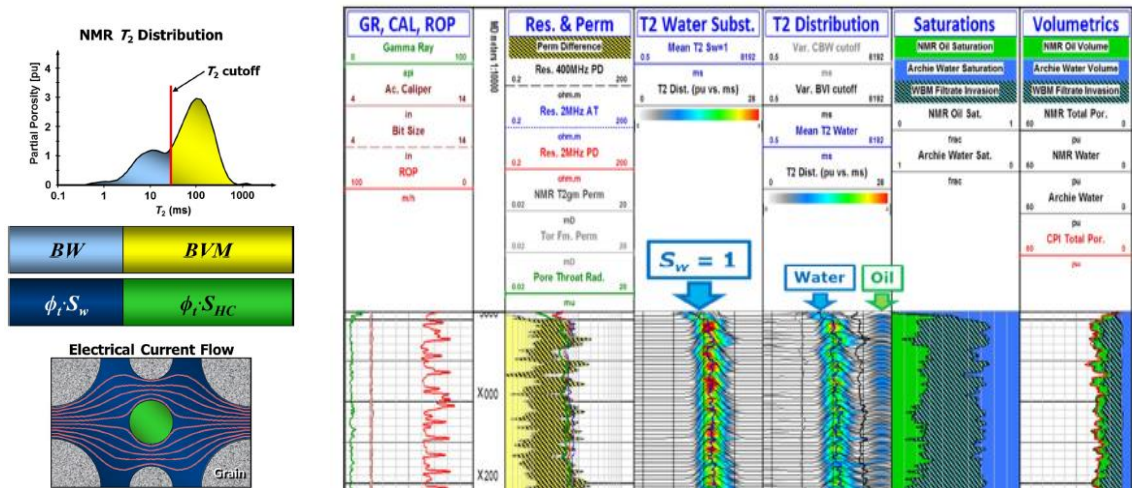
AFES Meeting: November 2016

Wednesday 9th November 2016, 6pm for 6.30pm
Cairngorm Room, Station Hotel, Guild Street

Joint interpretation of magnetic resonance fluid volumes and resistivity-based water saturation – a missed opportunity?

Geoff Page

Region Petrophysical Advisor, Baker Hughes
SPWLA Distinguished Speaker 2016-2017



Abstract: The accurate quantification of fluid volumes is one of the most important tasks for determining the economic value of hydrocarbon reservoirs. Resistivity-based fluid saturation calculations have been established for many decades with known benefits and challenges. More recently, nuclear magnetic resonance (NMR) technology has developed as an alternative, robust method for direct fluid volume estimation. We present a systematic compilation and discussion of main properties affecting resistivity and NMR fluid volume estimations such as Archie exponents and T2 cutoffs. This includes various reservoir types with various fluid types and measurement conditions. Guidelines will be provided on how to combine resistivity-based fluid volumetrics and NMR-based volumetrics most effectively.

Biography: Geoffrey Page studied physics at the Royal College of Science in London. He began his oilfield career as a Dresser Atlas field engineer 36 years ago, moved into Petrophysics in Aberdeen 28 years ago, and is now Region Petrophysical Advisor for Baker Hughes based in Aberdeen. He is a former President of the Aberdeen chapter of the SPWLA (AFES) and was honoured with a "life membership." He has written and presented many papers over the years and in his spare time, Geoff teaches the Petrophysics course of Aberdeen University's "Integrated Petroleum Geoscience" MSc programme.