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Society of Petroleum Engineers

New South Wales / Australian Capital Territory
C/- Oil Search Limited
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SPE 22nd July 2009 TECHNICAL MEETING

FESAus Distinguished Lecturer Martin Kennedy Presents:

The next meeting of the NSW/ACT Section will be held at **12:00** on **Wednesday, 22 July 2009** at the Oil Search Ltd's office in Sydney **Dr Martin Kennedy** FESAus 2009 Distinguished Lecturer **will present**

“Permeability in the Eye of the Beholder”

Abstract

Permeability is often treated as just another petrophysical property but anyone who has attempted to model it soon realises that it has a number of attributes that make it much harder to deal with than say porosity. This talk is based on the 'Permeability Master Class' that took place in Perth last year. The Master Class was a half day event that consisted of a series of half hour talks on various aspects of permeability. Each talk was given by a locally based petroleum engineer and covered everything from definitions to specific measurement techniques using core, logs and tests.

This talk starts as a distillation of those talks but then goes on to discuss how the different techniques compliment each other and why they often disagree. In particular the question of whether lack of agreement is a nuisance or actually tells us something more about the reservoir is addressed. The talk ends with a discussion of what we really need to know and concludes that that depends on the particular reservoir in question and who is asking the question.

Biography

Martin Kennedy is a Consultant Petrophysicist based in Perth. He started his career as a wireline logging engineer with Schlumberger and has been involved in some aspect of petrophysics ever since. After short spells working in research and government, he joined British Gas plc in 1991 and moved to Enterprise Oil plc five years later. He was Chief Petrophysicist at Enterprise from 1997 until the Shell takeover when he joined Petro-Canada International, also as Chief Petrophysicist. He joined Woodside and moved to Perth in 2003 and was appointed Chief Petrophysicist eighteen months later. Over the next five years he worked on most of Woodside's Australian and Overseas assets and at the same time implemented a range of improvements to Woodside's Petrophysics capability. In 2008 he left to work as an independent consultant and now supports a wide range of organisations working throughout the world.

His career has spanned everything from field developments to quick-look evaluations supporting new venture activity, operations and unitisation. He has worked in many of the classic petroleum provinces and has a lot of experience in what are generally considered the more difficult areas of petrophysics such as carbonates, fractured reservoirs and tight gas. Kennedy holds a B.Sc degree in Chemistry from Bristol University and a Ph.D in Electrical Engineering from Edinburgh University.

VENUE: Oil Search Ltd's Office
Angel Place Level 27 123 Pitt Street Sydney (Ph: 8207 8400)

TIME: 12 for 12.30pm,
Level 27 at OSL Office presentation commences 12:30 till 1:10pm
Ground floor at Bar Capola lunch will commence 1:15pm

COST: Members: A\$40.00
Non-members: A\$45.00
Student members: A\$20.00

PLEASE: We **MUST** complete bookings by **midday Wednesday 15th July 2009**, to ensure catering.
Please contact **Marilyn Braine** at Oil Search on, email Marilyn.Braine@oilsearch.com
