



NEWSLETTER May 2010

Message from the LPS President:

Ash clouds and oil spills have put geosciences in the news this last month. Discussions about these issues quickly reveal that most people know very little about what is under their feet or the workings of the oil industry. This is why it is vital that geosciences students should be encouraged to enter into a career in our industry. To this end, the LPS have a number of programs to help students. The Iain Hillier Academic Award Scheme provides financial support for students and university departments. We are accepting applications for 2010. Please see the website for more details: <http://www.lps.org.uk>. We have also prepared a petrophysical data set of logs and core data which is available as a teaching aid to any UK based university. For details on the data set please contact Mike Millar, mmillar@suncor.com

I am very pleased to announce that Dick Woodhouse has kindly agreed to step into the vacated Past President position. Dick has long been a good friend of the LPS and is very welcome.

Many thanks to George Williamson from Baker Hughes for his talk on “Coring and Core Handling” at the April evening meeting.

Iain Whyte from BP will be presenting a talk on the “Integration of cased hole and open hole logs provides a unique opportunity to improve well productivity” at the next evening meeting on the 17th May.

The next one day seminar will focus on carbonate petrophysics. If you have a paper you would like to present at the Carbonates III seminar on the 16th September please contact Robert Webber, robert.webber@bg-group.com

All the best

Adam Moss: LPS President



London Petrophysical Society
Registered Charity Number 1020083
A Chapter of SPWLA

Dates for Your Diary

Monday 17th May, LPS Evening Meeting, Geological Society, London, Piccadilly. 6pm.
Iain Whyte – BP, “Integration of cased hole and open hole logs provides a unique opportunity to improve well productivity”

Thursday 16th September, LPS One Day Seminar, Geological Society, London Picadilly
– “Carbonates III”



Next Evening Talk

Integration of cased hole and open hole logs provides a unique opportunity to improve well productivity

Iain Whyte - BP

Abstract:

Poorer than expected performance in a newly drilled gas condensate development well prompted further investigation. Post perforation time lapse cased hole wireline logs were compared to open hole interpretations to better understand poor productivity.

Post initial perforation Production Logging Tools (PLT) were run and the results compared to cumulative permeability (Kh) for each reservoir layer. In light of the startling results and poor match between predictions to actual, a remedial acid treatment was planned to attempt to clean up potential skin damage caused from lost drilling and completion fluids.

Subsequent to acid treatment a second PLT was run in combination with Pulsed Neutron Saturation logs. The Sigma curve from Pulsed Neutron was compared to a synthetic Sigma from open hole neutron logs. Chlorine deposited during successful acid treatment was observed as an increase in capture cross section (Sigma).

By integration of open hole logs, time lapse PLT's and Pulsed Neutron logs a clear understanding of where acid treatment had been effective was evident. The improvement in well productivity pre to post acid treatment was in order of 17% for one reservoir layer alone.

Had PLT's not been run it would not have been possible to determine the main reasons for poor productivity, nor plan remedial action.