

# Petrophase

## Innovation in the Petro-Chemical Industry

Can you tell what sort of petroleum would be present in a reservoir solely from a density gradient measured 3 kilometres from the ground's surface? Would it be gas, oil, or a mixture? How does the composition of oil or gas change as the reservoir depletes? If it was contaminated with hydrogen sulphide how would that partition between water, oil, and gas during production?

Questions like these are frequently posed during oil and gas exploration (and production) and so prompted Brian Moffatt

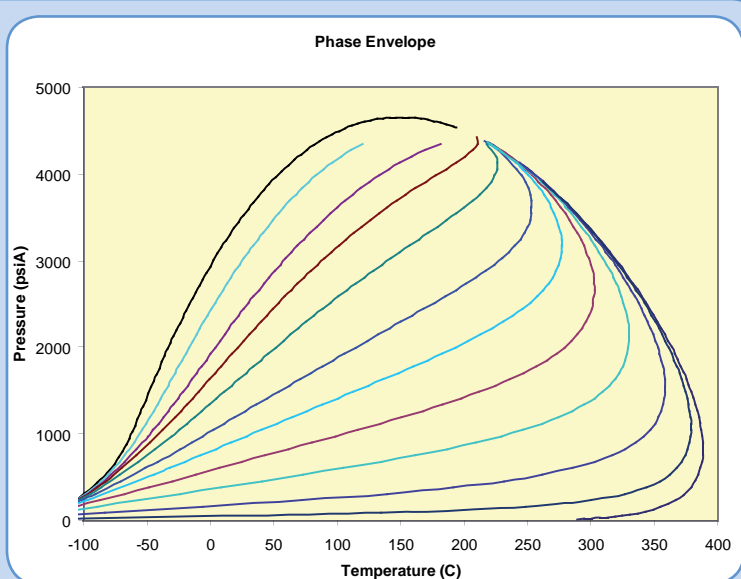
and Mike Fawcett to launch technical consultancy firm Petrophase in 2004. They work within a highly technical field, investigating a wide range of industrial and natural phenomena.

The Petrophase team utilise diverse techniques such as thermodynamics, geochemistry, physics, phase behaviour, and a sprinkling of other sciences. Indeed, the Petrophase philosophy very much draws on the full spectrum of scientific disciplines – rather than traditional scientists who often tend to look for solutions solely within their particular area of expertise. Most projects find the team having to invent innovative new techniques, putting them firmly on pioneering ground.

Petrophase typically work on solving problems within the oil and gas industries where complex offshore processing methods are employed. They have also developed unique software to aid the process of allocation – ie, determining the proportion of oil and gas from any given well.

With their strong track record of successful thermodynamic detective work and finding answers to complex questions, Petrophase have found themselves in such demand they have had to expand recently. And with ever more difficult and complicated wells being drilled for oil, there is no sign of the questions drying up.

For more information about Petrophase, contact Brian Moffatt on 0118-929-3267 or visit [www.petrophase.com](http://www.petrophase.com).



**Petrophase**

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Petrophase: Petroleum Fluid Consultancy.  
Petrophase is a petroleum fluids consultancy to the oil and gas industry. It is registered in the UK with consultants based in Reading (UK) and Mortlis (France).  
Petrophase Ltd draws on over forty years combined experience to provide advanced technical solutions to Integrated Oil Companies, Consultancies and Service Companies. A wide variety of fluid problems with oil, gas and gas-condensates across four continents have been solved successfully.  
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