



**APPEX 2012  
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LONDON**

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**Petroleum Geology for Financial Professionals Short Course**

**Date:** Friday, 9 March 2012 | **Instructor:** Ted Beaumont | **Location:** Business Design Centre

## Outline

### Part 1: The Basics: Origins of Petroleum, Traps, and Reservoirs

*You will learn the basic concepts of petroleum geology and how they are applied to petroleum exploration and production:*

- Where does oil and gas come from, and why does it matter? (look at the example of shale gas/source rocks vs. reservoir rocks)
- How do rock properties determine the cash flow from a producing field?
- What does it take to have a viable oil or gas field?

### Part 2: Before You Drill: Review of Key Information

*The type of information you need in order to make informed investment decisions is discussed:*

- What kinds of maps should you ask to see?
- What kind of information should a prospectus include?
- Well information: sorting it out
- Where is production data found or acquired?
- What can seismic tell me? Is 3-D always required?
- Offshore vs. onshore seismic data gathering and interpretation (multi-azimuth offshore surveys, etc)

### Part 3: Risk: High-Risk vs. Low-Risk Ventures

*A basic overview of risk assessment techniques will be reviewed:*

- What do you need to know about geology to assess the geological risk of a venture?
- What is geological risk, and why does it matter now (in the exploration phase) or later (in production operations)?
- Wildcats, developmental, step-out, in-field wells: what are the relative risks to the venture?

### Part 4: Reserves

*The following questions will be answered:*

- What are reserves? What are the different types of reserves?
- How are reserves measured?
- How are reserves valued? What are some of the pitfalls of valuation?
- How can knowledge of geology help you understand reserves, and where and how reserves estimates can be problematic?

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