

23-25 April 2012  
LONDON, UK

*Understand the  
methods to  
maximise revenues  
from unconventional  
oil & gas  
projects.*

# WORLD FISCAL SYSTEMS FOR UNCONVENTIONAL OIL AND GAS



INTERACTIVE COMPUTER BASED COURSE

## BY ATTENDING THIS COURSE YOU WILL:

This course is suitable for a wide range of professionals in the oil and gas industry looking to broaden their understanding of the fiscal frameworks of shale oil and gas projects. This includes:

- Gain an introduction to shale oil, shale gas, coal bed methane and oil sands geology and technology
- Assess the environmental and regulatory issues related to unconventional oil and gas
- Understand North American and Alberta fiscal systems and economics based on individual wells for shale plays and coal bed methane
- Benchmark international fiscal systems based on total contract and concession area development for shale plays and coal bed methane
- Pinpoint the optimal fiscal design for unconventional resources from a government and investor perspective

## OVERVIEW:

As unconventional oil and gas projects develop around the world, energy companies are looking into the ways that they can become commercially viable. The course provides participants with an intimate knowledge of fiscal systems of unconventional oil and gas resources. By using a computer spreadsheet, participants will be able to identify the challenges, opportunities and strategies to lower the cost of unconventional projects and maximise their profitability. In depth economic analysis will be conducted on 25 different case studies from around the world.

## WHO SHOULD ATTEND:

The course is structured to be useful to a wide range of professionals looking to increase their understanding of the fiscal frameworks of unconventional oil & gas projects including:

- Geologists
- Petroleum engineers
- Bankers
- Accountants
- Negotiators
- Economists
- Lawyers





## SHALE OIL & GAS - NORTH AMERICA

### SHALE OIL & GAS GEOLOGY

- Key differences between conventional & non-conventional resources
- Shale formations
- Carbon content
- Oil vs. gas generation
- Shale logs
- World shale oil & gas resources

### SHALE OIL & GAS TECHNOLOGY

- Drilling technology
- Fracking technology & operations

### SHALE OIL & GAS ENVIRONMENTAL ISSUES & SOLUTIONS

- Ground water protection
- Surface footprint reduction
- Safe fracking fluids & operations

### INTRODUCTION TO SHALE PLAY COMPUTER SPREADSHEET - INDIVIDUAL WELLS

- Shale oil & shale gas well production profiles, revenues & costs
- Well economics
- Henry Hub based prices
- Basis differentials

### NORTH AMERICAN SHALE PLAYS

- Revenue & cost structure of shale oil & shale gas wells, for typical North American shale gas plays and shale oil plays

### CANADIAN GENERAL FISCAL TERMS FOR SHALE OIL & GAS

- Signature bonuses
- Rentals
- Royalties
- Corporate income tax

### CANADIAN SPECIFIC FISCAL TERMS

- Alberta-Montney shale gas computer simulation
- NE British Columbia, profit sharing royalty, computer simulation

### US FISCAL TERMS FOR SHALE OIL & GAS

- Signature bonuses
- Rentals
- Royalties
- Corporate income tax
- Production & Severance taxes
- Property taxes

### TEXAS FISCAL TERMS

- Barnett shale gas computer simulation
- Eagleford shale oil computer simulation

### NORTH DAKOTA FISCAL TERMS

- Bakken shale oil computer simulation

## COAL BED METHANE - NORTH AMERICA

### COAL BED METHANE GEOLOGY

- Key differences between coal bed methane & conventional gas
- Coal bed methane formation
  - Wet & dry coal bed methane
- World coal bed methane resources

### COAL BED METHANE TECHNOLOGY

- Drilling technology & operations

### INTRODUCTION TO COAL BED METHANE COMPUTER SPREADSHEET - INDIVIDUAL WELLS

- Coal bed methane well production profiles, revenues & costs

### ALBERTA FISCAL TERMS

- Alberta coal bed methane terms computer simulation

### OIL SANDS - ALBERTA OIL SANDS GEOLOGY

- Oil sands & bitumen
- Northern Alberta oil sands resources

### OIL SANDS TECHNOLOGY

- Mining
- Steam Assisted Gravity Drainage (SAGD)

### INTRODUCTION TO OIL SANDS COMPUTER SPREADSHEET - SAGD PROJECT

- SAGD production profiles, revenues & costs

### ALBERTA OIL SANDS TERMS

- Alberta oil sands terms computer simulation

### SHALE OIL & GAS - EUROPE REGULATORY FRAMEWORK

- Key regulatory requirements
  - Differences with conventional regimes
- Work program and phases of development
- Acreage management

### INTRODUCTION TO SHALE PLAY COMPUTER SPREADSHEET - INTERNATIONAL SHALE PLAY PROJECTS

- Shale oil & shale gas project production profiles, revenues & costs
- Project economics
- European gas markets

### GENERAL INTRODUCTION TO EUROPEAN FISCAL TERMS

- Rentals
- Royalties
- Corporate Income Tax

### SPECIFIC EUROPEAN FISCAL SYSTEMS FOR SHALE OIL & GAS

- Poland
- Germany
- France
- Spain
- Bulgaria
- Poland shale gas project computer simulation
- France shale oil project computer simulation

Preferred training company for the last 14 years



Participants at a CWC School for Energy course

“The course leader’s breadth of experience and knowledge added tremendous value to the course. Very inspiring.”\*

\* Referring to course leader  
Dr Pedro van Meurs  
Clare Wood, Legal Counsel,  
ENI AUSTRALIA

## SHALE OIL & GAS - ASIA & LATIN AMERICA

### SPECIFIC ASIAN FISCAL SYSTEMS FOR SHALE OIL & GAS

- Indonesia
- China
- India
- Indonesia shale gas project computer simulation

### MODIFICATIONS REQUIRED IN TYPICAL PRODUCTION SHARING CONTRACT

- Modifications required in work programs, relinquishment, phasing & development plan procedure

### SPECIFIC LATIN AMERICAN FISCAL SYSTEMS FOR SHALE OIL & GAS

- Colombia
  - Colombia shale oil project computer simulation
- Brazil
- Argentina
  - Argentina shale gas project computer simulation

## COAL BED METHANE - ASIA-PACIFIC

### SPECIFIC ASIAN-PACIFIC FISCAL SYSTEMS FOR COAL BED METHANE

- India
- China
- Indonesia
- Queensland (Australia)
  - Queensland coal bed methane project computer simulation

### GENERIC R-FACTOR ANALYSIS ON PSCs

### GENERIC R-FACTOR ANALYSIS

- Advantages of R-factors for shale oil & gas and coal bed methane
- R-factor analysis of a generic production sharing contract



**Dr Pedro van Meurs** received his Ph.D. in Economic Geology (cum laude) at the University of Utrecht in the Netherlands in 1970. During the last 30 years he has worked on fiscal oil and gas issues in more than 70 countries worldwide.

He has hosted the World Fiscal Systems for Oil & Gas course and participated in training seminars in more than 30 countries worldwide. While carrying out international consulting, he was for many years also president of a small Alberta petroleum company.

Together with Barrows Inc., New York, he developed PETROCASH, which is the most comprehensive integrated database and computer model for World Fiscal Systems for Oil & Gas.

### HE WAS A LEADING CONSULTANT IN:

- Opening of the Newfoundland offshore for exploration and production
- Alaska Petroleum Profits Tax and the proposed gas pipeline contract
- Development of the first model contract for offshore China
- Production sharing, SPT and tax terms in Trinidad and Tobago
- Capitalisation of YPFB and 1996 petroleum law in Bolivia
- PSCs in Gabon and Bangladesh
- Creation of fiscal terms in Thailand and Pakistan

“One of the best course leaders I’ve ever seen. Very knowledgeable with the subject. I admire him.\*”

*\*Referring to Dr Pedro Van Meurs*  
**Waleed Almandhari, Asset Manager, OMAN OIL COMPANY E&P**



Led by our  
World Fiscal  
Systems for Oil &  
Gas expert  
Dr. Pedro van  
Meurs

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