

# Introduction to Underbalanced Drilling

0.8 CEUs (Continuing Education Units) awarded for this 1-day course.

## ***Instructors***

Steve Nas, Weatherford Asia Pacific Pte Ltd

## ***Intended Audience***

The course is designed for all personnel involved in underbalanced drilling operations, including on- and offshore management, wellsite engineers, wellsite supervisors and operations engineers involved in the project.

## ***Description***

With the increased use of advanced drilling technologies such as underbalanced drilling, there is a need to train all personnel to ensure that the project is completed safely and successfully. Upon completion of this course, registrants will have a knowledge of the integrated technologies involved in underbalanced drilling operations; understand the operation of an underbalanced drilling project; and be able to make an informed selection of all equipment required to carry out an underbalanced drilling operation.

## ***Topics Covered***

- ◆ What is underbalanced Drilling?
- ◆ Objectives of drilling underbalanced
- ◆ Technique selection
- ◆ Drilling Fluid Systems
- ◆ Reservoir Studies
- ◆ Surface equipment for UBD operations
- ◆ Completing underbalanced drilled wells
- ◆ HSE Issues
- ◆ Limitations
- ◆ Advantages of underbalanced drilling
- ◆ Costs
- ◆ The future
- ◆ Case histories

## ***About the Instructor***

- SPE Member since 1979
- SPE distinguished lecturer on underbalanced drilling 1999 to 2000

**Steve Nas** holds a BSc in Electronics from the MTS in Nijmegen, Holland and an MSc in Drilling Engineering from The Robert Gordon University in Aberdeen. He has some 30 years of oilfield experience of which 27 years as a drilling engineer. Steve is currently the Engineering Manager for Weatherford's Controlled Pressure Drilling Services in Asia Pacific and he is based in Singapore.

Steve started his oilfield career in 1977 as a mudlogger, progressing into a wellsite drilling engineer's role in 1980 and from there worked throughout the Middle East, Africa and Europe as a drilling engineer including 6 years as operations engineer for Shell in the Southern North Sea. He got into underbalanced drilling operations with Smedvig and Northland in 1995 and was deeply involved with the first underbalanced operations in the North Sea including the first offshore underbalanced well drilled from a jackup and the first UBD coiled tubing drilled well from a floater.

In 2001 he headed up the BP Colombia UBD operations on behalf of Weatherford. Since then he has been involved in numerous feasibility studies and international underbalanced operations both offshore and onshore with jointed pipe as well as with coiled tubing.

In 2004 Steve joined Weatherford as the Engineering Manager for Controlled Pressure Drilling Operations in Asia Pacific and he currently provides engineering resources and support for all of Weatherford's controlled pressured drilling operations in Asia Pacific.

Steve was SPE distinguished lecturer on Underbalanced Drilling Technology from 1999 to 2000. He was also a lecturer on advanced drilling technology at The Robert Gordon University in Aberdeen. He has authored several papers on UBD and CTD technology.