

Geological Core Description

Course format: lectures, hands on exercises and tour of PanTerra's laboratory

Trainer: Dr. W.J.E. van de Graaff

Evert van de Graaff was awarded his Ph.D. in sedimentary geology by Leiden University in 1971. He worked as a field geologist on sedimentary basin studies in Australia till 1978. After joining Shell in 1978 he held operational assignments as reservoir geologist / production geologist / petroleum engineering team leader with Brunei Shell Petroleum, Shell Expro and the NAM (Shell's Dutch operating company). Whilst based in Shell's headquarters in The Hague he worked on a wide range of reservoir characterisation / modelling projects covering both clastic and carbonate reservoirs in many parts of the world (North Sea, South America, Africa, Middle East, Far East, Australasia). Following a 5-year stint as senior lecturer in Geosciences at Shell's EP training department he was senior technical advisor /team leader for static reservoir modelling technology. In this capacity he also carried out numerous QC reviews on the subsurface aspects (including reserves estimates) of field development plans and A & D opportunities. After retiring from Shell in 2003 he started his own consultancy in parallel with working ad hoc for PanTerra.

Course content

'Geological core description' is a course designed to provide E&P technical staff who will be tasked with carrying out reservoir studies with a sound understanding of the 'what, how and why' of a geological core evaluation. Following overview lectures, the course participants will carry-out a core description, make a sedimentological interpretation, identify the main uncertainties in that interpretation and the likely impact of those uncertainties on the resulting reservoir model. This will be complemented with an evaluation of the available core analysis [RCA] results.

The 1-day version of the course will be a 'pencil and paper' exercise only. The 5-day version will provide the participant with hands-on experience with the WellCad core description software.

Learning objectives

The one day version of the course will provide the participant with a sound understanding of how to approach a geological core evaluation project and how to read / QC a core description report. After the 5-days course the participant will be able to independently describe a core systematically using WellCAD and has gained a sound understanding of the geological core evaluation process. This 1-day version will utilise an existing core from a released well. The 5-day version will either use that released core, or alternatively, may use if so desired the Client's own core.

Duration & location

Depending on the participants' learning objectives course duration can range from one day to five days.
Panterra's head office in Leiderdorp.

Documentation

Each participant will receive a print-out of the full set of the PPT presentation materials used and a print-out of the Well Cad panel.