

▲ Who should attend?

Petrophysicists, reservoir engineers, geologists, geophysicists with a few years of professional experience in their respective discipline.

▲ Duration

5 days

▲ Dates & Location

October 20 to 24, 2008
Rueil-Malmaison (Paris)

▲ Tuition Fees

€ 1,900

▲ Course Coordinator

Jacques DELALEX

Ref. RES / ROCKTYP

PETROPHYSICAL PROPERTIES: CORE, LOG AND TEST DATA INTEGRATION

OBJECTIVES

To provide geoscientists with a sound information on how reservoir petrophysical properties are obtained from core, log and test data and how they are correlated and integrated for reservoir characterization and modeling.

On completion of the course, participants will be able to:

- List the various core laboratory measurements
- Obtain reservoir properties from log interpretation and compare them to core measurements
- Know the way to obtain rocktypes and electrofacies and derive K-Phi relationships
- Explain how to integrate core, log and well test data for reservoir modeling

This course is based on a real case study with core, logs and test data.

COURSE CONTENT

RESERVOIR PROPERTIES FROM CONVENTIONAL TO SPECIAL CORE ANALYSIS

1 day

Porosity, permeability, saturation, grain density
Wettability, relative permeability and capillary pressures
Electrical properties (m and n exponents)

RESERVOIR PROPERTIES FROM LOG EVALUATION

2 days

Determination of reservoir properties from log interpretation: lithology, porosity and water saturation (Case study)
Core - log correlation and comparison of petrophysical results
Permeability estimation from logs and core data
Reservoir summations results (Cut-offs, Net to gross ratio, average values, etc)

ROCK TYPING

0.5 day

Rock typing and facies identification from core description and logs

CORE, LOG AND TEST DATA INTEGRATION FOR RESERVOIR MODELING

1.5 days

Introduction to reservoir modeling
Well test analysis and integration with Petrophysics
Reservoir static geocellular Model
Upscaling
Dynamic Modeling
Pseudo Kr and Pc
Zonation of Model for Kr and Pc