

E-170

▲ Who should attend?

Geoscientists and technicians having an experience in qualitative log interpretation and willing to perform quantitative reservoir evaluation. Basic tool principles and applications are supposed to be known (equivalent knowledges to the content of the training course: "Well Log Interpretation", E-160).

▲ Duration

5 days

▲ Dates & Location

June 15-19, 2009
Rueil-Malmaison (Paris)

French session: F-170

▲ Registration

Fees: € 1,950

Contact:

gre.rueil@ifptraining.com
Fax: (+33) 1 47 52 74 27

▲ Course Coordinator

Jacques DELALEX

Ref. LOG / LOGADV

ADVANCED WELL LOG INTERPRETATION

COURSE OBJECTIVES

To acquire the methodology of quantitative well log interpretation and to be able to perform an interpretation in shaly formations with a deterministic approach.

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

- perform a sound quality control of logs and apply borehole corrections,
- determine log interpretation parameters and shale content of reservoirs,
- apply the shale and hydrocarbon correction and list the various interpretation methods,
- interpret quantitatively a set of logs.

COURSE CONTENT

PREPARATION FOR QUANTITATIVE INTERPRETATION 1.5 days

Petrophysical concepts and relationships
Quality control of the data
Determination of geological formations and reservoirs (case study n°1)
Environmental corrections of logs
Determination of R_t , R_{xo} , D_i

INTERPRETATION OF CLEAN FORMATIONS 1 day

Determination of fluid contacts (WOC, GOC)
Determination of matrix and fluid parameters, R_w (SP, Ratio, R_{wa})
Determination of lithology, porosity, fluid type, water and hydrocarbon saturations
Crossplots techniques: N-D-S, Pe-RHOB, K-Th, etc.

INTERPRETATION OF SHALY FORMATIONS (DETERMINISTIC APPROACH) 2 days

Influence of shale on logging tool response
Determination of shale parameters, shale content V_{sh} and effective porosity (case study n°2)
Hydrocarbon effects on logs and hydrocarbon correction
Determination of water and hydrocarbon saturations (various equations)

OTHER INTERPRETATION METHODS 0.5 day

Introduction to the multi-mineral model and general optimization method (case study n°3)
 P_c versus S_w