

E- 452

▲ Who should attend?

Young drilling or production engineers.

▲ Duration

5 days

▲ Dates & Location

Non scheduled

May be organized for a single company

▲ Tuition Fees

to be agreed upon

▲ Course Coordinator

Denis PERRIN

Ref. **PRO / TRAITE**

WELLBORE TREATMENTS

OBJECTIVES

The course examines well treatment operations and procedures with regard to well equipment.

At the end of the course, the participants know:

- how to stimulate an hydrocarbon well and what can be expected,
- how to care about sand production and water coning.

COURSE CONTENT

AIMS OF WELL STIMULATION AND SAND CONTROL OPERATIONS 1 day

Productivity index; skin effect; flow efficiency
Overview of problems encountered, main treatments
Damage due to fluids, fluid selection

MATRIX TREATMENT: ACIDIZING, ... 1 day

Aim
Fluid selection for carbonate rocks and sand stone acidizing
Laboratory studies for designing a matrix treatment
Operating procedures
Treatment evaluation
Exercises

HYDRAULIC FRACTURING 1 day

Aim, description of the process
Main parameters and power requirements
Selection of fluids and propping agents
Operating procedures
Fracture evaluation

SAND CONTROL 1 day

Aim, main methods
Sand control design - Gravel selection
Operating procedures - Gravel packing
Treatment evaluation
Exercises

WATER OR GAS SHUT-OFF AND DEPOSITS 0.5 day

Origin of the problems
Remedial

SYNTHESIS 0.5 day

Wellbore treatments recapitulation and limitations
Case study