

Training - Tight Reservoir Petrophysics



TIGHTPE-EN-P



Face-to-face only



5 days

This course provides knowledge and understanding of the petrophysical aspects of tight reservoirs

Level

Skilled

Public

Experienced geoscientists and reservoir engineers involved in multidisciplinary teams, willing to widen their knowledge in tight reservoir petrophysics

Objectives

Attendees will be able to implement the following skills:

- Characterize tight reservoir lithology and mineralogy, porosity, water saturation, permeability, capillary and relative permeability, quantify the Total Organic Content (TOC) and calculate Hydrocarbons In Place (HIP)
- Understand and use the log core data in tight reservoirs
- Understand and characterize tight reservoir mineralogy and lithology
- Apply the principles of tight reservoir petrophysics
- Understand the use of petrophysical properties tight reservoir in the characterization and modeling workflow

Pedagogical & technical resources

- Interactive courses and exercises
- Videos and examples with the most known unconventional reservoirs in the world
- Hands-on practice using a real case studies data set (Oil & Gas)

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

PETROPHYSICS IN TIGHT RESERVOIRS

1 day

Basic of tight reservoir.
Tight reservoirs in the world.

Overview of petrophysical properties in tight reservoir.
Log and core data.
Petrophysical model in tight reservoirs.
Petrophysical properties in static and dynamic models.

MINERALOGY & LITHOLOGY

1 day

Mineralogy of tight reservoirs.
Mineralogy from logging measurements and core data.
Lithology corrections.
Shale volume in tight reservoirs.
Examples from several tight plays in the world.
Lithofacies determination from log data and mineralogy.

PETROPHYSICAL PROPERTIES CALCULATION IN TIGHT RESERVOIRS

2 days

Porosity calculation in tight reservoirs.
Total Organic Content (TOC) in tight reservoirs.
Water saturation evaluation.
Hydrocarbons in place.
Sweet spots determination.
Permeability and relative permeability.
Capillary pressure.

TIGHT RESERVOIR PETROPHYSICS WORKSHOP

1 day

Examples from several tight plays in the world.
Hands-on application: 3 different datasets of tight reservoirs (Oil & Gas).

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com