Training - Gas Reservoir Management

GASRMGT-EN-P | Face-to-face only | 5 days

This course provides an extensive and practical knowledge about optimizing gas & gas condensate reservoirs development and management

Level
Knowledge

Public
Reservoir engineers, petroleum engineers, field development engineers and production engineers involved in gas and gas condensate reservoirs development and management

Objectives
Attendees will be able to implement the following skills:

- Describe PVT modeling of gas and gas condensates
- Apply classic methods to estimate gas and gas condensates accumulations and recovery included material balance and decline curves analysis
- Perform basic gas well testing and determine deliverability
- Apply decline curve analysis and rate transient analysis for estimating initial gas in place and ultimate estimates reserves
- Apply basic reservoir management methods for optimizing with gas reservoirs performance and dealing with water influx and condensate banking phenomena

Pedagogical & technical resources
Interactive lectures and exercises

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

Responsable
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

GAS RESERVOIR FLUID PROPERTIES — 1 day

Gas reservoir fluid properties: dry gas, wet gas and gas condensate:

- PVT modeling of gas and gas condensates.

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- Experimental data for gas and gas condensates.
- PVT sampling procedure.

Condensate banking.

GAS MATERIAL BALANCE — 1 day

Gas reservoirs and wells modeling through material balance methods: dry gas, wet gas, gas condensates.
Estimate of initial gas in place through material balance methods.

GAS WELL TESTING — 1 day

Gas reservoirs fluid flow and well testing - Non Darcy flow.
Gas wells deliverability and AOFP.
Flow after flow tests, drawdown and buildup tests.

GAS RESERVOIR PERFORMANCE FORECAST — 1 day

Decline curve analysis and rate transient analysis:

- Determining IGIP.
- Determining gas reservoir performance and UER forecast.

GAS RESERVOIR MANAGEMENT — 1 day

Optimizing gas reservoir performance:

- Water influx.
- Gas condensates reservoir and condensate banking - Cycling.

Well performance aspects.

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

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