

Course Description

Production Optimization

Summary

This course describes the work of the oil and gas producing company. It starts after the wells have been drilled and are taken into production. We will follow the process of Monitoring, Identification, Solution selection, Implementation and Data Management. The course will first start with the monitoring plan of the entire production system, although the focus is on inflow and outflow monitoring, surface facilities performance observations are important too. Second, the course will talk about opportunity or problem identification. When the monitoring is carried out correctly, possibilities for further recovery and production improvement can be identified. Once understood, these opportunities can be matured or problems can be solved by selecting the right technologies or production best practices as a third step. Of course the fourth step is to make sure that the solutions are implemented in the field as designed and that the results are reported in a data management system. This step of post job reporting and data storage will close the loop of production optimization and form the new start of monitoring against new performance parameters.

At the end of this training event, participants will be able to:

- Monitor production systems
 - Initial start-up and testing
 - Normal production performance
 - Well testing design and interpretation
 - Production logging
- Identify opportunities and/or problems
 - Un-swept zones
 - Skin
 - Sand production
 - Scale
- Select solutions
 - Stimulation: acidizing, re-perforating, hydraulic fracturing
 - Water shut-off
 - Well clean-out
 - Coiled tubing operations
- Implement solutions
 - Well work design and execution
- Data management
- Data organisation

The course is set-up for all disciplines involved in field development and production optimization.

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B-PES Botermans Petroleum Engineering Services

The course can be adjusted or extended according to the specific wishes of the client. For example, the technical content can be adjusted which makes the course suitable for government officials investors and bank employees who need to know more about the activities of their business partners.

Learning Level:

This training event is designed to achieve an Understand and Apply level.

Classroom requirements

The following equipment is required in the classroom: a beamer, flipchart, and/or white board.

Exercises & exam

During the course examples and exercises will be presented.

At the end there will be a final exam. Purpose is to rehearse the presented material and be able to find the information that is required to answer simple E&P questions.

Evaluation

A course evaluation form will be presented in order to allow future improvement of the course.

Training Course Modules:

Day	Description
1	- Monitoring reservoir and well performance - Well testing design and implementation
2	- Cased hole logging - Opportunity and problem identification
3	- Formation Damage - Water production & control - Acidizing (basics)
4	- Hydraulic fracturing (basics) - Solution selection & implementation
5	- Well services - Data management

About the Lecturer



Name: Cornelis Wouter Botermans

Educational Background:

Delft University of Technology, MSc. Petroleum Engineering (1996)

Professional Background:

Wouter Botermans has worked for Halliburton, Shell, BP, TAQA and Tulip Oil in the role of reservoir engineering, production technologist and field development lead. He was responsible for the integrated optimization of well, reservoir and system performance and for the development plan of the largest gas storage in Europe. In his role as development lead with Tulip Oil he was involved in the evaluation of numerous opportunities and the composition of development plans, portfolio management and economics. Currently Botermans is freelance petroleum engineer focusing on recovery and productivity optimization, training and consultancy.

Personal Motivation to Lecture:

It is very rewarding and motivating to deliver a solid proposal for any development plan or well intervention that is composed and supported by the team. The recognition of the importance of the contribution of every discipline in the E&P process will provide the basis of successful execution and operation to create value for the organization. In my role as petroleum engineer, I had the pleasure to work with many people on numerous topics crossing discipline borders and creating mutual understanding of the subsurface and expectations.

Mr. Botermans is married and has 3 children. His main hobbies are sports, photography and cars.

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