Well Servicing & Workover

Overview

LEVEL
Knowledge

PURPOSE
This course provides the required comprehensive knowledge and skills for well servicing and workover.

LEARNING OBJECTIVES
Upon completion of the course, participants will be able to:
- select the right means for well intervention,
- design well servicing or workover programs,
- supervise well servicing or workover operations.

WAYS AND MEANS
Two case studies are worked out: one for well servicing, the other for workover.

LEARNING ASSESSMENT
Quiz.

PREREQUISITES
No prerequisites for this course.

MORE INFO
This course can be delivered in French, with documentation in English.

Agenda

TYPES & MEANS OF INTERVENTION ON PRODUCING WELLS
0.5 d
Mains types of intervention: measurement, maintenance, workover.
Introduction to main means (wireline unit, coiled tubing unit, snubbing unit, workover rig): principles, area of application.

GENERAL PROCEDURE OF A WORKOVER
0.5 d
Main operation steps: chronology, more tricky operations from a safety point of view, main operations.
Case of depleted reservoirs: losses and formation damage, kick-off after the workover.

WELL KILLING PROCEDURE FOR A PRODUCING WELL
1.25 d
Killing the well by circulation: area of application, basis procedures (direct or reverse circulation), elaboration of the forward-looking pumping diagram.
Killing by squeeze: area of application, basis procedure, elaboration of the operating program, case where the injectivity test is unsatisfactory, squeeze and bleed-off method.
Final killing phase: observing the well, operations to run after packer “unsetting”.

WELL OPERATIONS ON PRODUCING WELLS
2 d
Wireline operations: principle and area of application, surface equipment, wireline tool string, WL tools, fishing tools, safety during operations.
Coiled tubing operations: principle and area of application, surface equipment, CT downhole equipment, CT safety and operating considerations.

CASE STUDY: WORKOVER PROGRAM

KNOWLEDGE ASSESSMENT