Well Performance & Productivity

Table of Contents:

BTS
Training & Consultancy

1st floor, Incubator Building, Masdar City, Abu Dhabi, UAE

00971-2-6452630

00971-50-6652671

info@btsconsultant.com

www.btsconsultant.com

Introduction:

This course will cover well performance and productivity. Specific topics that will be covered include, well inflow and outflow performance, NODAL analysis, well surveillance, and problem diagnostics. Participants will also learn about productivity enhancement by stimulation, work over, sand management, corrosion control, and artificial lifting.

Objectives

By the end of this course, delegates will be able to:

- Learn about well performance and productivity
- Know reservoir types and performance, as well as perforating and productivity will also be discussed
- Learn about well inflow and outflow performance and the total well (nodal) system analysis
- Focus on well surveillance and problem well identification
- Learn about production logging applications and techniques, electric and slickline surveys, and the sources and causes of productivity impairment at different stages of well drilling
- Learn about sand production, control, and productivity effects along with water production, control, and productivity effects will also be covered
- Learn about the different types of productivity enhancements including well intervention, matrix stimulation, and hydraulic fracturing

- Discuss productivity enhancements as well as well controls
- Discuss tubing techniques, workover (rig), sand management, corrosion monitoring and control and the control of paraffins, asphaltenes, and hydrates
- Learn about scale deposition, control, and removal

Who should attend?

Production Engineers, Reservoir Engineers, Chemical Engineers, Mechanical Engineers and Technicians, Geologists, Field operations and Technical personnel, Instrumentation and Control Engineers, Process Control Engineers, Electrical Engineers, Consulting Engineers, Design Engineers, Maintenance Supervisors, Control System Application Engineers, Project Engineers, Plant Engineers, Instrumentation Technicians, Electronic Engineers and Technicians, Automation Engineers, Electronic Design Engineers, Electricians, Installation and Maintenance Technicians, Instrument and Process Control Technicians, Instrument Fitters, Maintenance Engineers, Operations Engineers, Process Technicians, Production Professionals, System Integrators

Course Outline

Production System Analysis

- Flow through the reservoir to the sand face
- Flow through the completion
- Flow through bottom hole tubing restrictions
- Flow through the tubing
- Flow through surface tubing restrictions
- Flow through the flow line into the separation

Workover

- Work planning, problem recognition
- Problem recognition
- Types of workover operations

Production Chemistry

- Surfactants
- Corrosion
- Scales
- Paraffins

Artificial Lift

- Artificial lift definitions
- Different artificial lift systems
- Definition of flumping well
- Selection of proper artificial lift method

Problem Analysis & Removal

- Different types of production tests
- Test planning and considerations
- Formation damage identification
- Inflow performance relationship
- Well problem removal techniques
- Sand control techniques

Enhanced Oil Recovery

- Detentions of oil recovery
- Different methods of EOR
- EOR requirement
- Selection of proper EOR