Well Productivity & Enhancement

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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 BTS training course, participants 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:

- Well Performance and Productivity
- Well performance and productivity
- Reservoir types and performance
- Perforating and productivity
- Well productivity impairment
- Well inflow & outflow performance
- Total well (NODAL) systems analysis

Well Surveillance and Problem Well Identification:

- Well surveillance and problem well identification
- Production logging applications and techniques
- Electric and slickline surveys
- Sand production, control, and productivity effects
- Water production, control, and productivity effects
- Productivity Enhancement
- Well intervention
- Matrix stimulation
- Hydraulic fracturing
- Candidate selection and stimulation exercise

Productivity Enhancement and Well Controls

- Well Intervention
- Presentation and discussion of Candidate Selection Exercise
- Tubing techniques and workover (Rig)
- Sand management
- Corrosion monitoring and control
- Control of paraffins, asphaltenes, and hydrates
- Scale deposition, control and removal

Artificial Lift and Electrical Submersible Pumps (ESP)

- Artificial lift
- Electrical Submersible Pumps (ESP) and other systems
- Exercises on ESP systems