A LDI Training Course

COILED TUBING AND NITROGEN

Mr. Diego Londono

OVERVIEW

Course provides an overall understanding of the latest Coiled Tubing (CT) and Nitrogen (N2) intervention’s technology. A basic description of Completion equipment is the introduction to CT & N2 equipment, applications and operational limits. Concepts are enhanced by practical exercises, graphics, videos and mainly by numerous real case histories.

WHAT YOU WILL LEARN

- Well Surface Equipment: Well head, Xmass & Annulus
- Completion Equipment: Tubing, Packers, Nipples, Sleeves, Safety Valves
- Pressure Fundamentals: Hydrostatic, Gradient, SG, Friction losses, U-Tube
- CT Surface Equipment: Injector, Reel, Power Pack, Cabin and Tubing Guide
- CT Pressure Control Equipment: Stripper packer, Blowout Preventers, Accumulators, Flow Tee / Flow Cross, Lubricators and Risers, Injection Sub
- Most common CT Downhole Tools
- CT Applications: Wellbore cleanouts, Chemical treatments, N2 lifting, Logging, Perforating, Milling & Cutting, Fishing, Squeeze Cementing,
- Extended Reach, Fracturing, Drilling and Completions
- Construction of CT strings
- How to calculate CT string limits
- How Fatigue affect CT string life
- How to react / what to do in emergency and contingencies situations
- Nitrogen basic safety
- Nitrogen equipment
- Nitrogen calculations for constant and non-constant temperature applications

COURSE CONTENT

Introduction to Well Interventions
1. Introduction
2. Surface equipment
3. Completion basic components
4. Pressure fundamentals
5. Volumetric Calculations.
Coiled Tubing
1. Introduction
2. Surface equipment
3. Pressure Control Equipment
4. Downhole tools
5. Applications
6. Coiled Tubing strings
7. Operational limits
8. Life estimation (fatigue)
9. Corrosion
10. String management
11. Emergency responses and contingencies

Nitrogen
1. Introduction
2. Safety with liquid Nitrogen
3. Nitrogen equipment
4. Nitrogen basic calculations

WHO SHOULD ATTEND

Engineers, supervisors and/or operators new in the industry or those willing to expand their knowledge in CT & N2 as a technology used for Well Servicing, Drilling & Completion. Once completed, participants will be able to plan, design and optimize CT & N2 job execution.

YOUR COURSE LEADER

Mr. Diego Londono has more than 15 years’ experience in rig-less Well Interventions working with major Services and major Oil Companies in very diverse environments. His experience includes execution, supervision and management with Slick/Braided Line, Electric Line (cased hole), Coiled Tubing, Stimulation, Fracturing and Well Tests. He has and is currently coordinating interventions at well sites with authority over all service companies at rig-less environments.

After receiving a B.S. in Petroleum Engineer, he started with Halliburton as a Stimulation Engineer for 3 years after which he was promoted to a Coiled Tubing Engineer for the following 4.5 years. He jointed BP to become Well Site Leader (Company man) for rig-less Well Interventions for 3 years. He went to work with ENI in the giant Kashagan project offshore of the Caspian Sea in Kazakhstan as Coiled Tubing / Well Intervention Engineer for 3 years. For the last 1.5 years he is back consulting as Sr Well Site Leader for rig-less Well Intervention in Colombia.

He is owner and managing director of Wellinco (www.wellinco.com), specialized rig-less Well Interventions training company. He is fluent in Spanish and English and is IWCF Well Interventions Pressure Control certified instructor.

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