



External Training Course

Introduction to Well Intervention on Natural & Artificial Lift Wells

From 22 Jan. To 26 Jan. 2024

From 19 Feb. To 23 Feb. 2024

From 27 May To 31 May 2024

Traders Hotel, Kuala Lumpur, Malaysia

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INTRODUCTION

A well intervention is any operation carried out on oil or gas well during its productive life that alters the state of the well, provides well diagnostics, or manages the production of the well. Primarily in this training course, we are concerned with problems associated with the completion string. Problems associated with the reservoir can be investigated and evaluated using production logging and well test techniques. In general, problems associated with the completion string can be classified into problems which arise in the tubing bore and which can be corrected through tubing operations and problems which necessitate the retrieval of the completion string from the well. This training course will contain in-depth information on the impact of workovers and completion design in maximizing field production and increasing recoverable reserves. It also emphasizes the importance of well interventions methods (slickline, Electrical line and Coiled tubing) during lifetime of the well to keep well productivity under optimum conditions.

OBJECTIVES

By the end of this training course, delegates will learn:

- Introduction to the variable nature of well interventions.
- Describe the inherent risks and need for careful diagnostics, planning and supervision.

- Describe the economic implications of a workover in terms of the need to protect the well production or injection capacity.
- List and describe the equipment and operational concepts involved in coiled tubing and hydraulic workover units.
- Identify, evaluate, and recommend functional capability of completion strings for a variety of situations.
- know the well control barrier principles.
- Identify three barriers methodology during well intervention.
- Know well control barrier classification for different type of well intervention method.
- Describe the mechanisms of a slick wireline operation.
- List and describe the commonly used downhole wireline equipment and tools.
- List and describe the surface wireline equipment requirements; lubricator; BOP, stuffing box.
- Describe well pressure control and safety issues associated with wireline.
- State the limitations on successful wireline operation imposed by depth, hole angle and dog leg severity.
- learn procedures and equipment used in wireline, coiled tubing, and workover.

TRAINING METHODOLOGY

This Introduction to Well Intervention on Natural & Artificial Lift Wells training course will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This training course is designed as a blended environment of presentation, class exercises, field application/analysis and several industry videos showing all processes.

COURSE OUTLINE

DAY 1: Basic Well Completion Design, Practices and Strategies

- Well Completion Design Considerations.
- Reservoir Considerations.
- Mechanical Considerations.
- Classification of Completions.
- Lower and upper completion string components and selection consideration

DAY 2: Barriers and Containment Devices

- Barrier terminology.
- Barriers and containment devices.
- Barrier envelope.
- Barrier integrity testing.
- Flow control devices (mechanical barriers).
- Well kill principles and procedures.

DAY 3: Wire Line Types, Tools and Applications

- Introduction to wireline.
- Types of wireline.
- Basic tool strings.
- Introduction to wireline fishing.
- Stuffing box.
- Wireline valve (bop).
- Standard braided line rig up.
- Wireline applications and operational considerations.

DAY 4: Coiled Tubing Equipments and Applications

- Coiled Tubing surface and subsurface components.
- Coiled Tubing applications.
- Cleaning operations with CT.
- Well back flow (nitrogen lift).

Day 5: Well Control Equipments and Procedures

- Pressure control equipment for wireline and Coiled Tubing.
- Barrier elements for wireline and Coiled Tubing.
- Pressure testing of all barrier elements.
- Emergency of wire line operations (wire cut on surface or downhole, tools stuck, etc).
- Emergency of Coiled Tubing (Pin hole in CT surface or downhole, CT stuck, CT crack and etc.).

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