

# Principles of Surface Well Test Planning and Conduct

Effective and Time-tested Techniques for Assessing Well Productivity

## Introduction

Well testing is a series of organised procedures designed to help us determine the features and attributes of a well's behaviour through data collection. In the oil and gas sector, testing production and injection wells is a regular practice that is essential to efficient well monitoring and condition assessments. Because this work is routine-based, we gradually lose sight of the components that make up a high-quality well test, particularly when it comes to sound data collection procedures.

It is important to note that the robustness of the data gathered during this production well test procedures will play a major role in practically all choices regarding any well's performance, both in the field and at the office of the support team.

A few of the difficulties in running a successful well test campaign includes the team, especially the field operators, not being made aware of important components of a well test campaign. These fundamentals will be covered in this Course N Carry Oil & Gas Technology training seminar on the "Principles of Surface Well Test Planning and Conduct" Additionally, a sustainable process and improvement system for a high-performing team in well test design and execution will be offered. A brief overview of well test interpretation will be given to wrap things off. This will guarantee that, in terms of effective well test execution and goal alignment, personnel gathering data in the field are in line with the office support staff.

## Featured in this Course N Carry training seminar are:

- Overview of Surface Production Well Testing: Challenges and Solutions Business Process for Design and Execution of Well Testing
- Overseeing the deep-water well testing operation and the procedures for acquiring, validating, and verifying test data
- Alignment of the team is essential for a successful well testing campaign, especially among the domain specialists.

## Objectives

The following will be the main goals of this Course N Carry training seminar:

- Recognise the rationale behind our well-being testing
- Create a well-tested programme that meets the needs of the business owner.
- Make the proper business decisions based on the well test data obtained.

### **By the time this Course N Carry training seminar ends, you'll know how to:**

- Do a thorough exam with a comprehensive grasp of recommended procedures.
- Recognise the unique business procedure for your item.
- Know what to look for in a high-quality data gathering for well tests.
- Create an execution plan tailored to each asset.
- Give a first-line interpretation for the well test.

## **Training Methodology**

This workshop-style Course N Carry Principles of Surface Well Test Planning and Conduct training session will prioritise industry best practices and encourage active participation from all attendees.

## **Organizational impacts**

**Teaching the principles of Interactive Economics to your employees can help drive organizational growth and seamless operations:**

- A short course that equips employees with skills for the real world
- Employees receive enhanced and economically driven decision-making skills
- Helps create better marketing strategies for higher sales
- Provides a competitive advantage by helping make calculated risks

## **Personal Impact**

**Enrolling in this course can benefit you in the following ways:**

- Gain a deep understanding of the relation between human behavior and finances
- Learn modern techniques to estimate market demand and prediction
- Attain leadership, adaptability, and decision-making skills
- Analyze and understand successful market strategies

## **Who should attend?**

**Professionals of all stripes can benefit from this Course N Carry training programme, but the following will be very helpful:**

- Production personnel and supervisors are supervised by production operators.
- Senior Managers, Asset Managers, and Production Engineers
- Engineers for Asset Support

- Process Engineers, Production Accountants, Planning Engineers, Reservoir Engineers, Metering Staff

## Course Outline

### Day 1

#### An overview of well-testing

- Fundamentals of Well Testing
- Evaluating the Awareness Level of Participants in Well Testing
- An Introduction to Well Testing Procedures
- A Case Study of Well Testing
- Specifying the Well Testing's Asset-specific Objective

### Day 2

#### Adoption of Well-Test Business Processes

- Important Domain Experts for the Design of Well Test Programmes for Successful Well Testing
- Typical Procedure for Well Testing
- Technology in Real-Time for Well Testing
- Creating a Well Testing Business Process Specific to Assets

### Day 3

#### Testing of Surface Wells in Deepwater Environment

- Highlights of Well Testing in a Deepwater Environment for Production Operations
- The difficulties in managing well tests in deepwater Difficulties of Deepwater Well Testing: An Overview of Experiences

### Day 4

#### Essentials of Interpreting Well Test Results

- The Theories Underpinning Well Test Interpretation: An Introduction

- Common Tools Needed Application and

- Limitations of Inferences Best Practice in Well Test Interpretation

# Day 5

## Case Study Performance Review Course Review

- Evaluation of the Participants
- Recap: Participants' input