



Applied Reservoir Petrophysics and Characterization

Table of Contents:

- Introduction
- Objectives
- Who should attend?
- Course Outline



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Course Outline:

Day 1

- Welcome and Introduction
- Process and Introduction Case Studies
- Workshop - Using the Gameboard Method
- Geological Framework

- Integrated Porosity, Permeability and Relative Permeability (Day focus is on core)
- Workshop - Facies and Petrophysical Rock Types and Designing a core data program
- Workshop - Quality assurance for routine core analysis

Day 2

- Integrated Porosity (continued) - Log porosity
- Workshop - Log based porosity and cross plots
- An overview of permeability and relative permeability
- Workshop - Designing a series of relative permeability tests
- Petrophysical Rock Types and Capillary Pressure Concepts
- Workshop - Using capillary pressure concepts to distribute initial fluids
- Workshop - Creating a Winland Plot
- Workshop - Creating a Excel Basic QuickScan Analysis

Day 3

- 3-Line Log Analysis "quicklook analysis", Log Based Water Saturation, Electrical Rock Properties and Capillary Pressure
- Workshop - 3-Line Log Analysis and Interpretation

- Workshop - Interpreting electrical rock properties
- Workshop - Selecting a water saturation model

Day 4

- Core-Log Integration and Using Mercury Injection Capillary Pressure Data to Confirm Petrophysical Rock Types, Clays and Pore Geometry
- Workshop - Interpreting Petrophysical Rock Types from high pressure mercury injection data
- Workshop

Day 5

- Flow units and integrated petrophysical interpretations
- Workshop
- Final Workshop -Core-Log Petrophysical and QuickScan Well Evaluation

Who should attend?

Petro physicists in the Oil & Gas Industry