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Course Code 44-412117-5

Wireline Log Interpretation for Geoscientists (WLI)

Course Overview

Wireline log interpretation is a fundamental skill for all subsurface geoscientists. The conventional open hole logs provide valuable information on lithology, porosity, permeability and fluid saturations that are critical to characterisation of the reservoirs. Wireline logs also provide the critical tie between the borehole core analysis data and stratigraphy from seismic interpretation. The logs are also a valuable tool for sedimentologists and stratigraphers wishing to construct depositional and sequence stratigraphic models from basin-scale to reservoir-scale.

This course will provide the foundation to the knowledge and skills required to achieve all the above.

Who should attend?

This course has been designed for geologists, geophysicists, reservoir engineers and reservoir modellers who need to understand the fundamentals of open hole wireline log interpretation, or entry-level petrophysicists.

Topics covered

- Understand the concepts of Stock-Tank Oil Initially In Place (STOIIP) Fundamental Rock and Fluid Properties, The Drilling and Logging Process, and The Theory of Tool-Rock Interactions (Nuclear, Electrical and Sonic)
- Undertake quality control of Logs
- Determine lithology and porosity
- Quantify fluid saturations in simple reservoirs
- Identify sedimentological environments on trends from logs
- Carry out sequence stratigraphic correlation
- Define permeable flow units

Duration : 5 Days (40 hours in total, assuming an 8-hour day)

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