



## Special Purpose Production Logging Fundamentals

### MODULE

#### About the Skill Module

This skill module focuses on interpretation of special purpose production logging techniques, namely noise logging, radioactive tracer logging, and distributed temperature surveys using fiber optic cables. Noise logging principles are covered and examples of using noise logs to identify fluid entry/exit points and leaks and to distinguish single-phase from two-phase flow are given. Radioactive tracer techniques are presented, and examples are shown for calculating flow rates in shut-in and flowing wells using slug tracking and velocity shot techniques. Instrumentation is covered for fiber optic temperature measurements and some examples showing how this works are given.

This skill module concludes with a lecture and an exercise on designing an integrated production logging program. Unlike conventional and array production logging measurements that can only sense what is happening inside the casing, noise, radioactive tracer, and temperature measurements can also sense some of what is happening behind the casing.

#### Target Audience

Petroleum engineers, production operations staff, reservoir engineers, facilities staff, drilling and completion engineers, geologists, field supervisors and managers, field technicians, service company engineers and managers, and petrophysicists who need to be able to interpret production logs or understand the production log interpretations done by others.

#### You Will Learn

- Noise Logging
- Radioactive Tracers
- Fiber Optic Temperature Logging
- Logging Program Design

#### Product Details

Categories: Upstream

Disciplines: Production and Completions Engineering Petrophysics

Levels: Foundation

Product Type: Individual Skill Module

Format: On-Demand

Duration: 10 hours (approx.)

**\$795.00**