Basic Reservoir Engineering

ABOUT THE COURSE

The intent of Basic Reservoir Engineering is development of a more complete "understanding" of the characteristics of oil and gas reservoirs, from fluid and rock characteristics through reservoir definition, delineation, classification, development plan, and production. Data collection, integration and application directed toward maximizing recovery are stressed. Basic reservoir engineering equations are introduced with emphasis directed to parameter significance and an understanding of the results.

DESIGNED FOR

Geologists, geophysicists, reservoir and production engineers working with reservoir definition, development and production.

YOU WILL LEARN

- The fundamentals of fluid flow in porous media
- How reservoirs are characterized by fluid type and drive mechanisms
- The basis for reservoir fluid distribution
- About oil and gas well performance and pressure buildup analysis
- About oil displacement and optimizing reservoir performance
- The basics of enhanced oil recovery
- How oil and gas in place can be estimated and recovery predicted

COURSE OUTLINE

- Reservoir fluid properties
- Fundamental of rock properties
- Fundamentals of reservoir fluid flow
- Reservoir fluid distribution
- Reservoir classification
- Reservoir drive mechanisms
- Oil and gas well performance
- Oil displacement concepts
- Estimation of oil-in-place and gas-in-place
- Recovery techniques

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