



Petro physics in Carbonate Reservoir

Table of Contents:

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



1st floor, Incubator Building, Masdar
City, Abu Dhabi, UAE



00971-2-6452630



00971-50-6652671



info@btsconsultant.com



www.btsconsultant.com

About the course:

During this course the basic concepts of petro physical properties such as porosity, permeability and mineralogy in carbonate reservoirs will be covered. The relationships between these parameters and in situ fluid saturations will be discussed.

This course is prepared to provide interpretation concepts and fundamentals for carbonate reservoirs on which to develop the petro physical knowledge and capabilities necessary for geologist, geophysicists, engineers and petro physicists.

Practice application on carbonate reservoir examples will be used as workshop training for quick look interpretation. The case studies for lithofacies identification, bitumen detection variable parameters in heterogeneous carbonate reservoirs from log data will be studied in this course.

Objectives:

You will learn:

- Carbonate Reservoir rock properties
- Discussion on tools will include advantage, disadvantage, physics of each tool was built and calibration
- Lithology (lithofacies in carbonates) and porosity determination
- Fractures, vugs, and bitumen detection in carbonate

- Resistivity, induction measurements
 - Coring and core analysis
 - Petro physical parameters evaluation from core and log data
 - Formation Evaluation concepts
 - Saturation, Archie's equation
 - Permeability determination from logs and cores
 - Quick Look interpretation using basic methods and cross-plots
-
- Output parameters of Open-Hole log Interpretation
 - Log Quality Control on tool measurements (log readings) and data handling
 - Practice application on carbonate reservoir examples
 - Case study for lithofacies and bitumen identification and variable parameters study in carbonate reservoirs

Who should attend?

Geologists, geophysicists, petro physicists and reservoir, petroleum, drilling engineers whose job requires a more extensive knowledge of petro physical engineering, data management staff, who is handling and loading digital log data.

Course content:

Targets and Expectations; Reservoir Rock Properties; Reservoir Parameters; Logging Tools Measurements; Open-Hole Logging Tools (Conventional and Recent); Lithology Tools; Porosity Tools; Resistivity Tools; Petro physical Parameters; Quick Look Well Log Interpretation;

Practical Application examples (Workshop); Recent and Advanced Tools While Drilling (LWD) ; Cased- Hole Logging Tools; Formation Evaluation; Advanced Formation Evaluation for Reservoir Petro physical Model Evaluation; Modern approaches and Techniques in Petro physics; Lithology Determination; Petro physical Parameters Determination; Computer Processed Interpretation (CPI); Log Quality Control; Cases study; Lithofacies Identification; Bitumen detection; Variable Parameters Study; Permeability Prediction in Carbonate Reservoirs.