A LDI Training Course

Modern Well Test Analysis

by

Dr. Roland N. Horne

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Modern Well Test Analysis is a 5-day well test analysis course personally conducted by Dr. Roland N. Horne. This highly regarded course has been attended by thousands of oil and gas, and geothermal professionals around the world for more than 20 years.

In this course, Dr. Roland Horne will teach you how to :

- Interpret well test to determine the properties of oil,gas and geothermal reservoirs
- Analyze transient well data to diagnose well condition
- Design well tests for maximum efficiency and success
- Use computer-aided interpretation tools

Participants will learn the latest techniques to analyze complex wells or reservoirs. Modern topics that will be included are :

- Horizontal wells
- Fractured and stimulated wells
- Multilayered reservoir analysis
- Variables rate and continuously monitored well tests
- Derivative plot interpretation
- Nonlinear regression and computer-aided analysis
- Multiple well tests
- Gas well analysis using pseudopressure and normalized pseudopressure
- Naturally fractured reservoirs

This course is hands-on, and consists of lecture presentations and doing exercises using laptops and software featuring all the latest well test analysis techniques. The course will use commonly applied commercial well test interpretation software, which will allow the participants to practice analyzing real and example well test data, using the same tools likely to be used every day in their companies.

Attendees should bring their own laptop to the training and are encourage to bring their own well test data for discussion during the course – either in the class or individually with the instructor.

Participants will also receive a textbook on modern well test analysis written by Dr. Roland Horne and more than 30 examples of well test examples for further learning after the course is over.

COURSE OUTLINE

Well Test Objectives

- Buildup, drawdown, interference and reservoir limit testing
- Test design to meet specific needs

Well Test Concepts

- Wellbore storage and skin
- Dual porosity
- Reservoir boundaries
- Superposition and desuperposition
- Rate-normalization
- Radius of investigation and drainage area
- Dimensionless variables

Computer-Aided Approaches

- Graphical presentations.
- Derivative plot
- Recognition of reservoir characteristics
- Nonlinear regression
- Confidence intervals
- Data preparation and filtering

Graphical Analysis Methods

- Horner and MDH plots
- Locating the correct semilog straight line
- Boundary effects
- Fractured wells
- Average reservoir pressure

Special Topics

- Horizontal wells
- Gas wells
- Fractured wells
- Multilayered reservoirs
- Interference tests

Field Examples

The course will include field examples from a wide variety of different types of well tests from across the world. Included are oil wells, gas wells, geothermal wells, injection wells, thermal recovery wells, horizontal wells, buildup tests, drawdown tests and interference tests.

WHO SHOULD ATTEND

- Reservoir engineers
- Geothermal engineers
- Production engineers
- Drilling engineers
- Development geologists
- Petroleum engineers

YOUR COURSE INSTRUCTOR

Dr. Roland N. Horne is a Professor of Energy Resources Engineering at Stanford University, and was Chairman of the Petroleum Engineering Department

He is an internationally-recognized expert in the area of well test analysis and has twice been an SPE Distinguished Lecturer on well-testing subjects.

Under him, more than 50 people have obtained Ph.D. degrees at Stanford University. Currently, Stanford University is recognized as one of the top schools in the world for the study of well test interpretation.

Prof. Horne has written more than 90 technical papers and two books on the subject of well testing. He is an SPE Honorary Member, and a member of National Academy of Engineering in the USA.

Roland Horne is the Technical Programme Chair of World Geothermal Congress 2020 in Reykjavik. He is also a member of Geothemal Resources Council Board of Directors.

TUITION :

US$ 4,500 per person

To enroll or get more information, please contact

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