INTRODUCTION

Dr. Roland Horne has designed this course to show you how to:
- Interpret well test to determine reservoir properties
- Analyze transient well data to diagnose well condition
- Design well tests for maximum efficiency and success
- Use computer-aided interpretation tools
- Estimate reservoir size from limit testing

Traditional topics that will be included to build understanding are:
- Semilog analysis
- Type curve analysis
- Well test concepts and design.

This course consists of lecture presentations and doing exercises using PC’s and a software featuring all the latest analysis techniques. Course attendees will receive a textbook on well test analysis written by Dr. Roland Horne and also a CD-ROM containing a multimedia teaching guide to the course material, with computer video and interactive exercises. This CD-ROM software will allow the attendees to practice analyzing all the 35 included well test examples, even 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
- Non-linear 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
- Type curve analysis

Special Topics
- Horizontal wells
- Gas wells
- Multilayered reservoirs
- Interference tests

Field Examples
The course will include at least 30 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 and interference tests. Attendees are also encouraged to bring their own well test data for interpretation during the course.

WHO SHOULD ATTEND
- Reservoir engineers
- Production engineers
- Drilling engineers
- Development geologists
- Petroleum engineers

YOUR COURSE LEADER
Dr. Roland N. Horne is a Professor of the Department of Petroleum Engineering at Stanford University, and is an internationally-recognized specialist in the area of well test analysis. He is also a member of National Academy of Engineering.

Under Dr. Horne, at least 25 people have obtained Ph.D. in well test research areas at Stanford. Currently Stanford is recognized as one of the top schools in the world for the study of well test interpretation. He has written more than 90 technical papers and two books on the subject of well testing.
Enrollment Information

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