

PORE PRESSURE PREDICTION IN PRACTICE

Martin Traugott

(2 days)

Who Should Attend

Geologists, geophysicists, engineers, petrophysicists, and drillers, who are involved in overpressure, including deep water plays. Tools will be discussed that can help with the exploration of deep water plays, one of the principal areas of undrilled prospects.

Objectives and Content

The principal objective of the course is to teach participants how pressure data relate to the safe and efficient exploration and exploitation of petroleum reservoirs. The course teaches participants:

- Pore Pressure prediction - methods and limitations
- Recognition of abnormal pressures and principle causes
- Influence of abnormal pressures on trap integrity, sealing efficiency, reservoir quality and maturation/migration efficiency in petroleum systems

The course is based around the following topics:

- Definitions and units
- Sources of pressure data - direct and indirect
- Abnormal pressures - recognition and causes
- Pore pressure in well design
- Pressure prediction methods and limitations of each
- Deep-water drilling - a special area in relation to pore pressures

The course is a mixture of short lectures, ample "hands on" exercises with pressure data and case studies. Material for the course will include many of the classic overpressure areas, such as Caspian Sea, Gulf of Mexico, North Sea, and basins of SE Asia.

Instructor

Traugott, Martin, is a consultant in Mandeville, Louisiana, after receiving his Ph.D. from Durham University in 2005, supporting pore pressure related research. He has thirty-three years of industry experience with Shell Oil, Shell Development, Amoco and BP. He supported worldwide explo-

ration and drilling groups for the last ten years as leader of a Pore Pressure Team. He was an Instructor for pore pressure training courses at the Chevron/BP Training Alliance for the last four years. He received his MS in Mining Engineering, University of Idaho in 1982.