



Summary

Modern exploration for stratigraphic traps is currently dominated by the search for seismic anomalies. At times this process is conducted at the expense of sound geological analysis. This workshop is designed to give attendees an insight into the key geological elements required for successful stratigraphic trapping. A range of classical and modern case studies provide the basis for lectures and interactive sessions during which participants gain extensive hands-on interpretation experience.

Learning Outcomes

Participants will learn to:

1. Identify new plays and predict stratigraphic trapping potential in a range of settings in clastic depositional systems.
2. Evaluate the relative merits of and apply a range of techniques used in the identification and evaluation of stratigraphic traps using seismic and well data.
3. Propose appropriate analogues for their future study areas derived from the detailed study of a number of case histories from different hydrocarbon settings worldwide.
4. Appraise and qualitatively rank stratigraphically controlled prospects using modern geological models and sequence stratigraphic concepts.
5. Appraise the full range of stratigraphic trapping potential in depositional environments from non-marine to deep water in clastic systems.
6. Synthesise and integrate the use of seismic data, well-logs and core data to predict the presence of stratigraphic traps and define the key risk parameters.
7. Evaluate and communicate issues related to reservoir continuity and trap integrity when developing stratigraphically trapped accumulations.

Duration and Training Method

This course is a three-day informal workshop comprising a series of talks on tools and techniques followed by hands-on interpretation exercises of geological and seismic data depicting “real-life” examples of proven stratigraphic traps. Attendees working individually and in teams will have the opportunity to present their findings and ideas to the rest of the class. Discussion and debate is encouraged.

Who Should Attend

Recommended for reasonably experienced prospect generators in exploration, as well as those involved in reserve additions.

Prerequisites and Linking Courses

Some knowledge of seismic interpretation, sequence stratigraphy and clastic depositional systems is preferable. Prior attendance on N007 (Seismic and Sequence Stratigraphy for Play Prediction and Basin Analysis), is also recommended.

Course Content

This course is designed to develop skills and illustrate techniques for use in the identification of stratigraphic traps. It comprises three days of lectures and highly interactive practical sessions in which the attendees work through a number of recent case studies. These come from a variety of hydrocarbon provinces in different



N067: Stratigraphic Traps: Concepts and Trap Styles in Clastic Reservoirs

Tutor(s): George Bertram

3 Days

Competence Level:
Skilled Application



Classroom Course

structural settings from around the world. The lectures and discussion sessions are used to provide models for reservoir, source and seal prediction using modern geological models and sequence stratigraphic concepts. The course is focused on clastic systems and the case histories have been chosen to represent the full range of stratigraphic trapping potential for reservoirs produced in environments ranging from non-marine to deep water. Each exercise will round off with a “key lessons learned” analysis.

Following the course attendees will be able to:

- Find new plays.
- Predict locations for potential stratigraphic traps.
- Qualitatively rank stratigraphic prospects.
- Present ideas and models to others.