W011: North Sea Reservoirs Series - New Perspectives on North Sea Plays

Tutor(s): Dave Quirk & Stuart Archer

2 Days	Competence Level: Skilled Application
Virtual Course	
Computer Usage	

Summary

The North Sea still presents many opportunities for major oil companies, smaller operators and new entrants alike. This series of webinars have been designed to deliver overviews of classic North Sea plays and their constituent reservoirs

This play based overview spans the entire spectrum of North Sea plays. Fundamental knowledge regarding the stratigraphic and structural setting of each play will be transferred using standard subsurface datasets (seismic, wireline and core) as well as a new angle using historical statistics (success rates, discovery sizes and area yield). Although the plays are defined through the lens of reservoir geology, other elements of the petroleum system will also be discussed (seal, traps, source, charge and timing).

Learning Outcomes

Participants will be exposed to:

- The importance of the North Sea Basin in global terms
- North Sea regions and play comparisons using exploration statistics
- Play by play overview
  - Structural and stratigraphic overview of each play type.
    - Structural style and trap configurations.
    - Gross depositional environments at both regional and field scale.
  - Each play in a petroleum systems context.
    - Reservoirs, seal, traps, source, charge and timing.
    - Main causes of prospect failure.
  - Statistical summary of the play.
    - Play extent.
    - Historical success rates and discovered resources through time.
    - Resource yield per unit area.
- How to recognise each play type on seismic, on well logs and in core.
- The use of analogues to illustrate and support technical interpretations,including development and production issues associated with the specific reservoir. What do the play statistics tell us about the future of the North Sea?

Duration and Training Method

This series has been designed to deliver short but high impact learning experiences. These are short courses that last one to two days (via webinar sessions) but can so be delivered via staggered webinars across a number of days, depending on the clients preferred delivery mode.

Who Should Attend

This course will benefit any subsurface professional working in the North Sea. The course is aimed primarily at geologists but geophysicists, reservoir engineers, team leaders and managers will also benefit from a deeper understanding of the classic play types.

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Course Content

The two-day webinar format will be divided into 4 sessions.

Session 1 (09.30 - 12.00 tbc) Introduction to the North Sea Plays, play analysis and play based statistical methods

Session 2 (13.00 - 16.00 tbc) Devonian, Carboniferous, Permian, Triassic

Session 3 (09.30 - 12.00 tbc) Jurassic, Cretaceous,

Session 4 (13.00 - 16.00 tbc) Tertiary, Discussion session, Conclusions, take home messages and a look to the future.

North Sea Reservoirs Series

NEW PERSPECTIVES ON NORTH SEA PLAYS via DISTANCE LEARNING

Tutors: Dave Quirk and Stuart Archer

The North Sea still presents many opportunities for major oil companies, smaller operators and new entrants alike. However, not all regions are equally rich and each play is different in terms of the number and size of discoveries, areal yield and commercial risk.

This play based overview includes all North Sea Plays, spanning the Pre-Cambrian basement to the Quaternary glacial sands. Fundamental knowledge regarding the stratigraphic and structural setting of each play will be transferred using standard subsurface datasets. This impactful short course will be delivered via distance learning as several webinar sessions over 2 days.

The course will focus on:

- The importance of the North Sea Basin in global terms
- North Sea regions and play comparisons using statistics
- Play by play overview
  - Structural and stratigraphic overview of each play type
  - Each play in a petroleum systems context.
  - Statistical summary of the play
  - Oil field analogues and the development and production issues
- What do the play statistics tell us about the future of the North Sea?