

Global GeoPressure

A newly-developed course covering all aspects of GeoPressure & Geomechanics for planning wells & their impacts on the petroleum system.

This course is aimed at providing a review of theory and latest thinking for planning wells i.e. PP/FG and Geomechanics as well as reviewing how critical pressure data is if used correctly in the cycle of an oilfield, from initial discovery to development of the accumulation.

As such, it is suitable for G&G, operations and drilling communities. One main focus is how the geology of a basin must be integrated in order to achieve best results.

COURSE CONTENT

Topics covered

- Data, definitions and datums
- Overburden stress calculation
- Wireline formation test interpretation
- Pore pressure in the overburden
- The causes of overpressure in a basin
- Fracture pressure models
- Understanding realistic geological uncertainty
- Oil field geomechanics
- Rock mechanical properties and core testing
- Horizontal stress anisotropy and wellbore stability

Session 1 - Basics of Well Planning

- DISCUSSION - Setting the scene in terms of understanding the needs of an operator and how PP/FG should be approached as Best Practice. As such, it is suitable for G&G, operations and drilling communities. One main focus is how the geology of a basin must be integrated in order to achieve best results.

Session 2 - Methods of Pore Pressure Prediction

- DISCUSSION - "Drillers pore pressure vs geological pore pressure and what is needed by the drillers from the geologists."

Session 3 - Oil field geomechanics

- WORKSHOP - An opportunity for operators to highlight any geomechanical issues faced and discuss practical, cost effective means of addressing these.

Session 4 - Rock mechanical properties and core testing

- DISCUSSION - How you do develop a fit for purpose rock property data base in a field, how to overcome data constraints?

Session 5 - Horizontal stress anisotropy and wellbore stability

- DISCUSSION - Minimising well construction problems and optimising casing size through understanding instability issues.

Duration

Full day

1-5 days

Learning Level

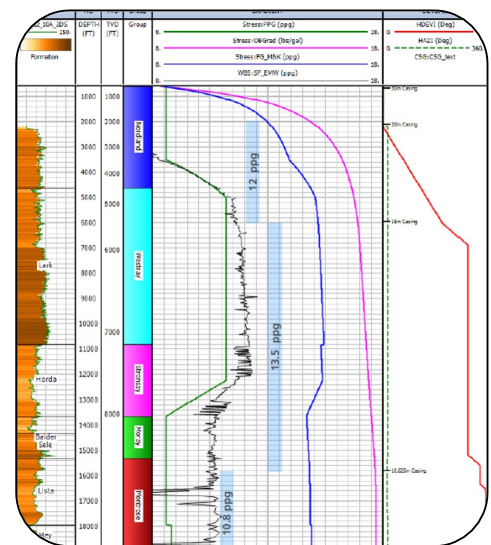
Skills ○○○○

Knowledge ●●●●

Awareness ●●●●

Designed for:

The course is aimed at geologists, geophysicists, petrophysicists, geomechanics specialists, basin modellers, operations and drilling teams.



Course Tutors



Stephen O'Connor
Stephen is a global domain expert in GeoPressure with extensive industry experience. He has delivered over 50 external training courses, including bespoke programmes integrating G&G, asset and drilling teams. Stephen has been instrumental in developing Best Practice workflows, well planning R&D, mentoring staff and integrating pore pressure with rock physics and geomechanics.



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