

Common Fallacies in Casing and Tubing Design

Failure is no longer an option

TRACS Training Master classes

One day Master classes are designed for people who want to update or refresh on specific topics without having to spend a week out of the office. The classes are led by experts in their respective fields and provide an opportunity for learning, inspiration, conversation and networking.

Designed for:

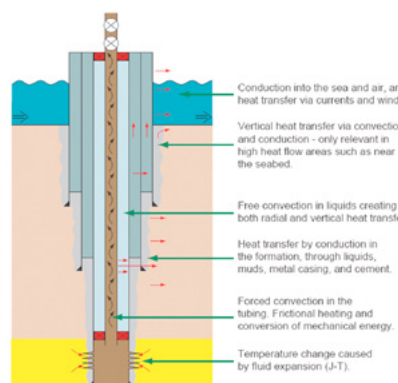
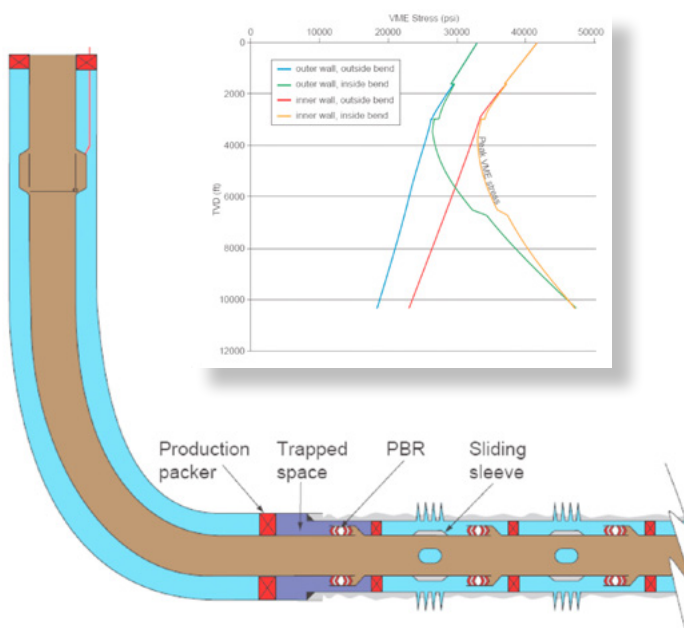
Aimed at drilling and completion engineers with some experience of tubular design and for managers and supervisors wishing to expand their understanding of the intricacies of tubular stress analysis.

Duration:

1 Day

It used to be the case that wells were either constructed with over-designed tubulars or that a learning curve / allowable failure rate was tolerable. This is no longer the case.

This one-day session examines some of the critical issues involved in the selection of tubing and casing. It is not intended to supplant more comprehensive courses, but instead focus on some of the nuances and often-misunderstood issues involved in stress analysis. No software will be used, but examples from software output will be presented. There will be opportunities for discussion and you are welcome to bring along any specific concerns about your well designs.



Common Fallacies in Casing and Tubing Design continued

Course Content:

Some of the issues that we will examine include::

- What is the worst-case production condition?
- Defining an appropriate worst-case wellhead shut-in pressure and temperature.
- What effect do adjacent wells have on casing design?
- Just how conservative is API burst and should we still use it?
- What the VME envelope really means and how should a realistic triaxial safety factor be calculated?
- How to incorporate the results from onerous testing of connections.
- Stimulation - is it just a case of high internal pressures and cold temperatures?
- Any other 'hot topics' that you'd like to discuss!



Course Duration:

1 day

Courses available from this series:

E&P Business in a Day
Uncertainty and Risk in Development
How to Make a Good Reservoir Model
Common Fallacies in Casing and Tubing Design
Reservoir Engineering Fundamentals
Field Development Planning
Geomechanics Integration
New Trends in Data Analysis
The Energy Transition in a Day
Carbon Capture and Storage (CCS)

Course Tutor



Jonathan Bellarby BSc (Hons) , MSc

Jonathan has spent most of his 20+ year career working on technical Petroleum and Completions Engineering problems. This has often been at the cutting edge of these fields such as HPHT, Deepwater, Stimulation and Non-conventional Wells. His particular expertise is in the area of tubing and casing selection; specifically stress analysis. He has run over 100 courses on the subject and written the industry-standard textbook on completion design.