

Verification of Barriers in an Abandonment Phase

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Serving
Every
Well

Verification of Barriers in an Abandonment Phase

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Serving Every Well

Agenda

- Operator's expectations
- Philosophy
- Barrier Verification System
- Lessons Learned
- Pressure verification on BVS
- Barrier installation verification
- Value to the industry



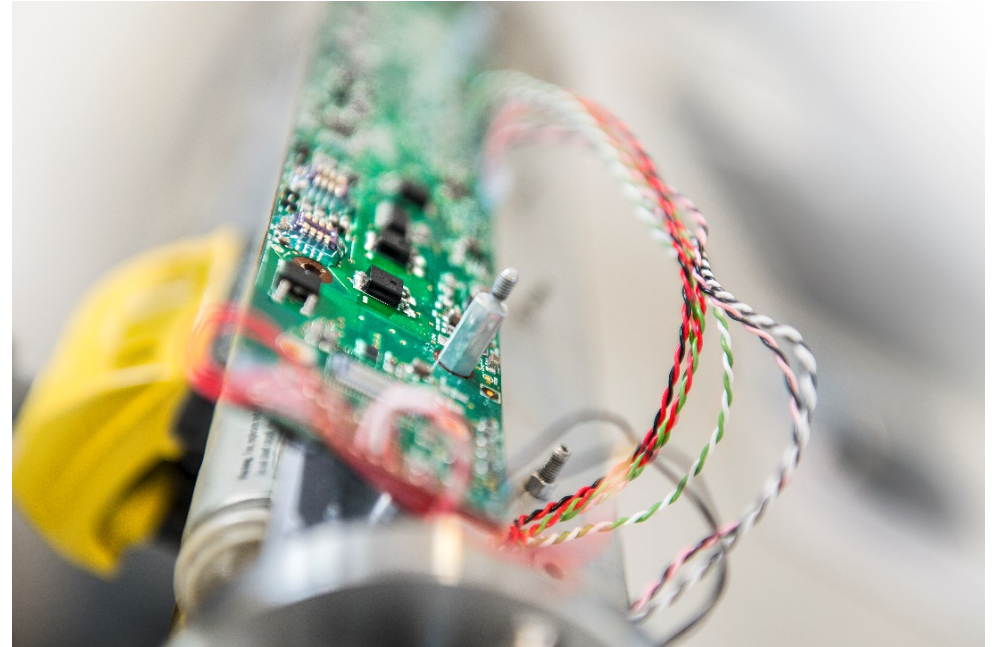
Operator's Expectations

A major North Sea oil & gas operator's barrier philosophy states –

“A well is plugged when an object or material is placed with intention to provide a fundamental/qualified barrier to isolate the reservoir.”

Philosophy

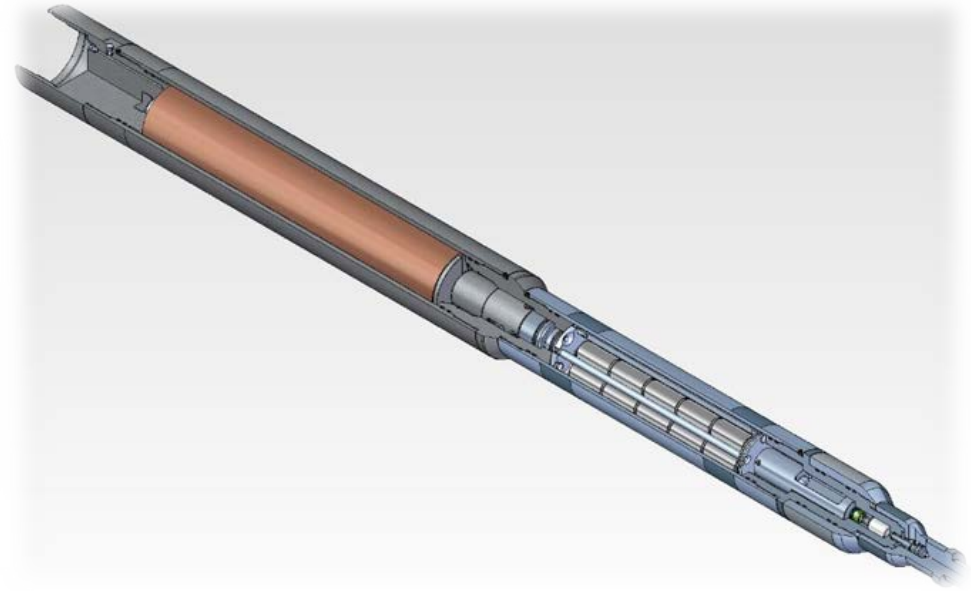
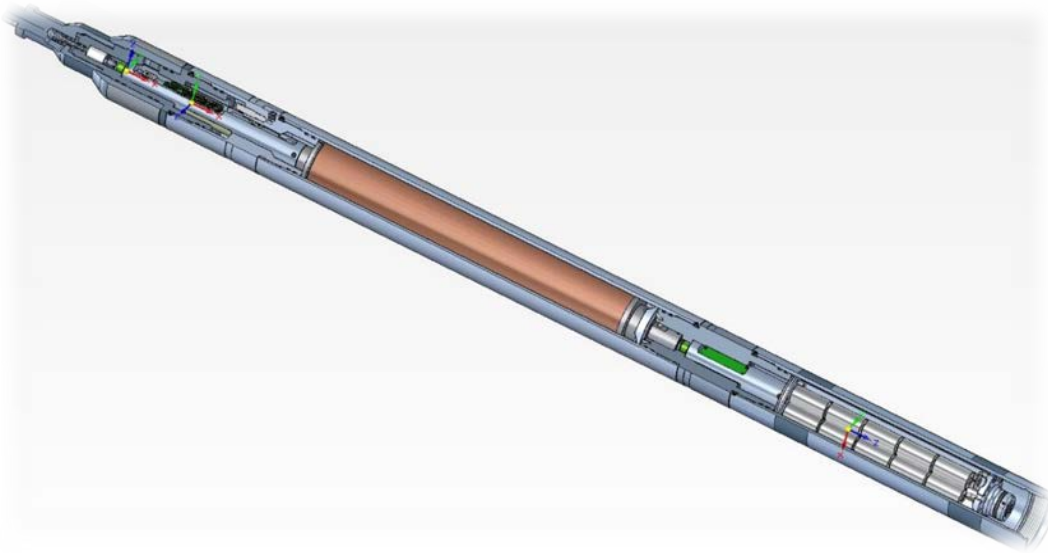
- All Interwell quality systems' approach is:
Say what you do, do what you say & verify.
 - **Describe** a proper installation sequence.
 - **Measure** the installation in the actual well.
 - **Decide** if you are within or outside the criteria envelope.
- We have now over 1300 setting profiles recorded in various wells and conditions.
 - From experience we sometimes find that what we think is there isn't always what we find.



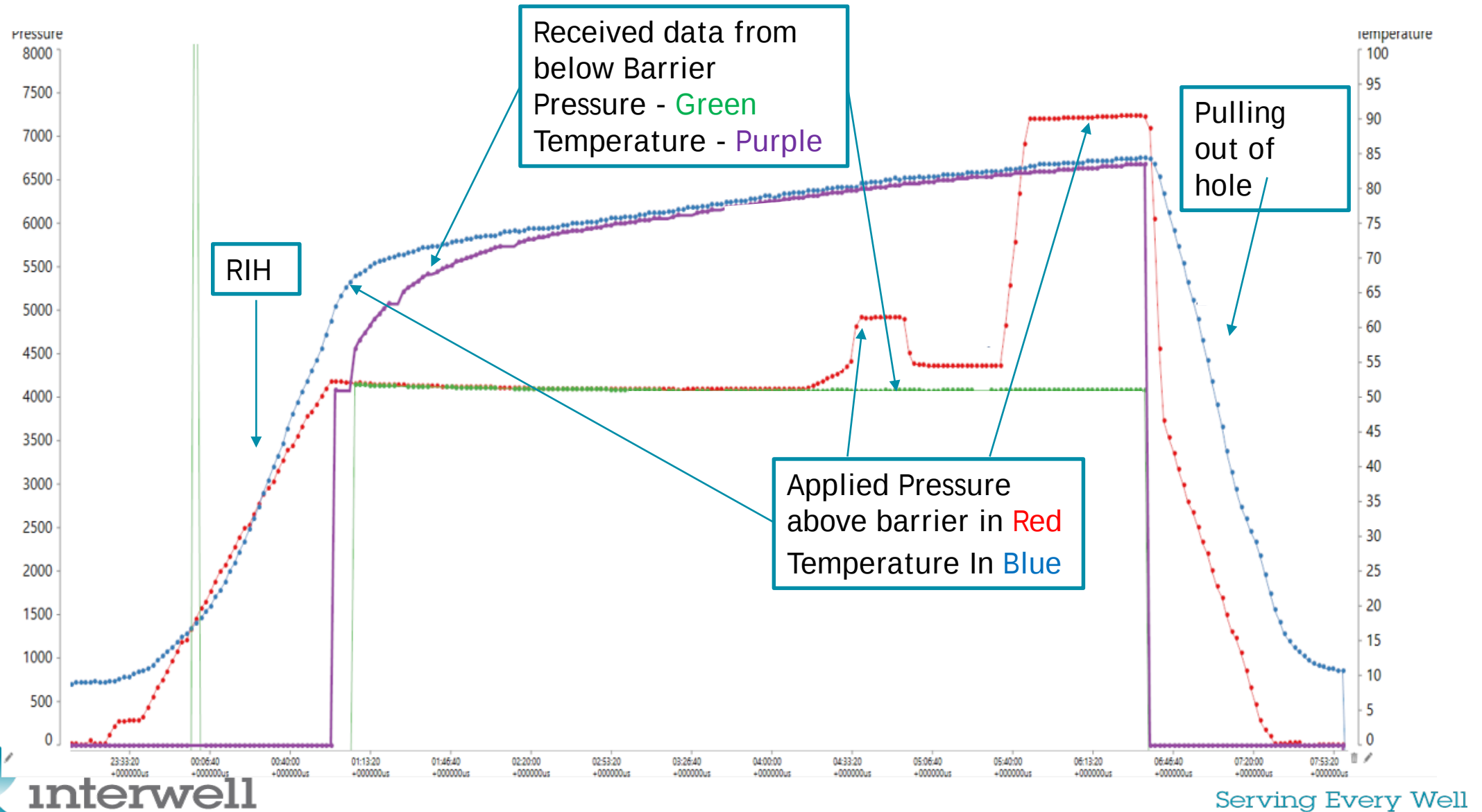
Barrier Verification System

The Equipment:

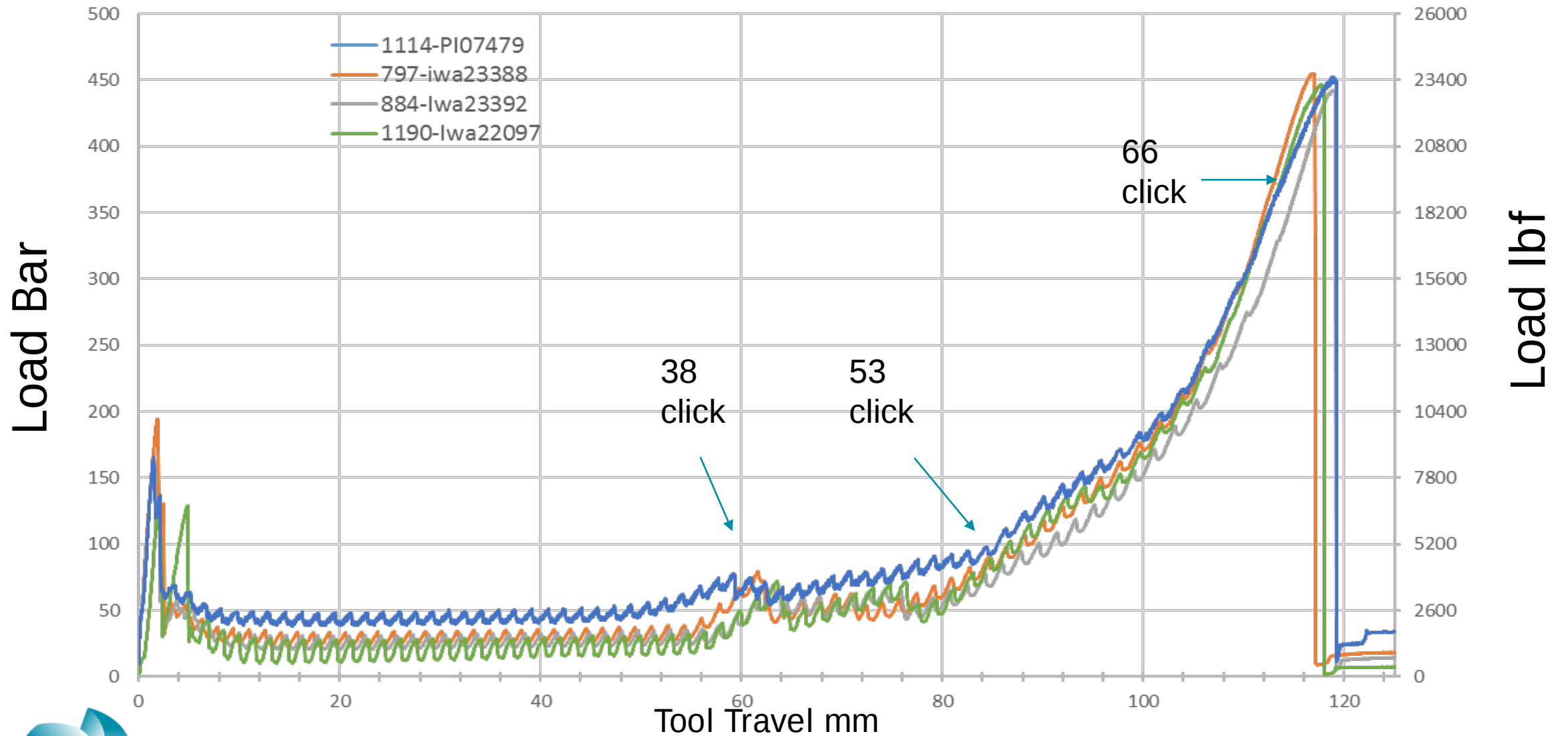
- Short Electronic Setting tool to log installation process
- Wireless receiver add-on module to setting tool
- Interwell barrier product produced and tested after recognized Standards
- Equipped with our Wireless Transmitter (BVS)



Pressure Verification on BVS



Barrier Installation Verification



Value to the Industry

- Verification of well barrier.
- Integrity with a higher degree of confidence.
- Efficient time savings, average verification time in UK is 45 minutes.
- Onshore support available.
- Online and real-time IS NOW available.



Thank you
for
listening

Questions?