



P&A The growth sector in Global Oil and Gas?

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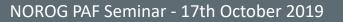
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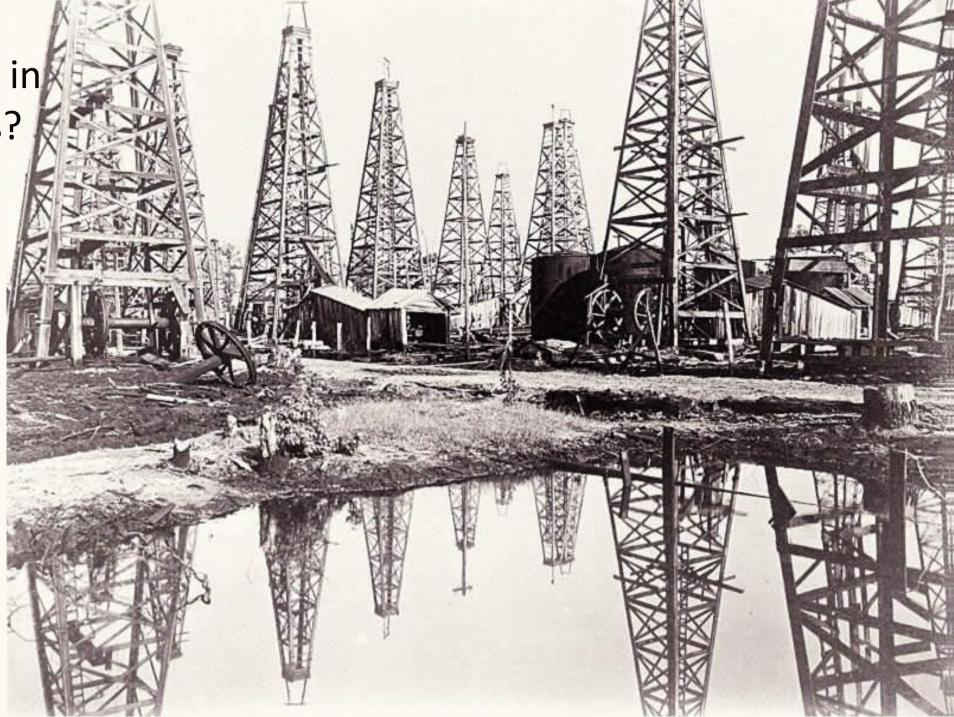
P&A

The growth sector in Global Oil and Gas?

Multiple millions of wells around the globe is either still producing or shut in pending P&A

2,400 wells will be plugged in the North Sea over the coming decade

In 2014, over 1.1 million active oil and gas wells in the USA and > 1,7 million by the end of 2015





NOROG PAF Seminar - 17th October 2019



'Shaping the Next Wave in Well Plugging and Abandonment"

Focus Areas included:

- Stakeholder Hopes / Concerns / Risks
- Uncertainties around wellbore conditions
- How to Achieve "Technical Limit"
- The Regulators Perspective
- New Technologies / Techniques / Materials
- Barrier Verification

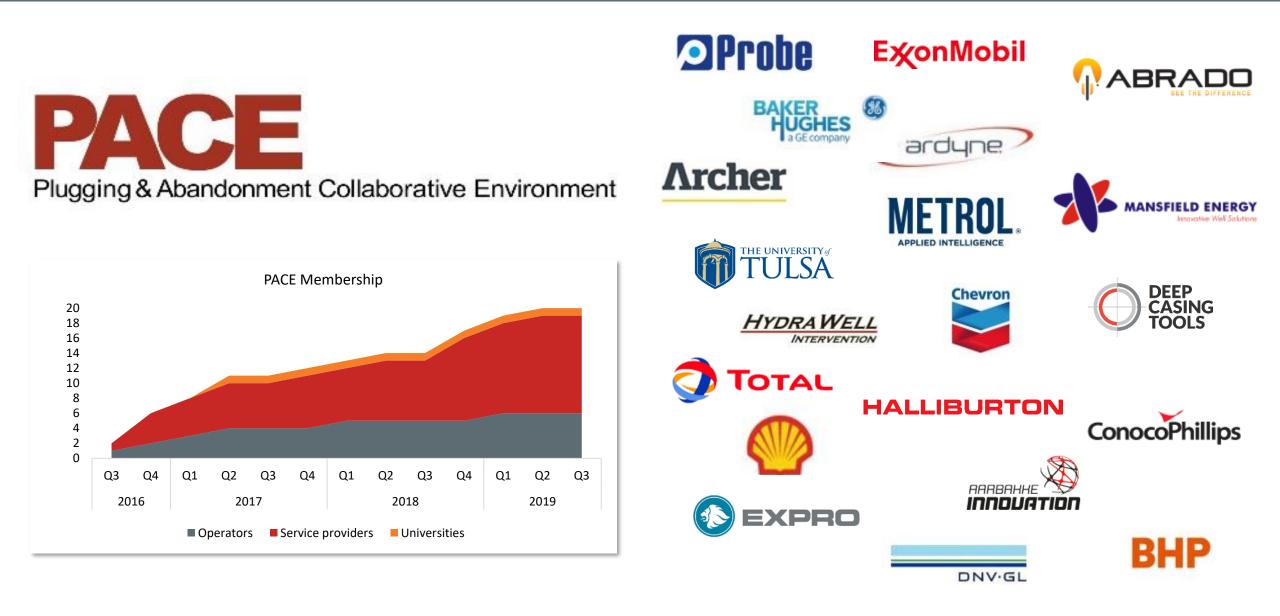


Priorities going forward included:

- Raise the awareness of the criticality of the P&A sector regarding environmental prudence
- Involve sub-surface expertise early in the P&A process
- The need for international standards for qualification of plugging materials
- Design new wells for effective final P&A
- Improved QA for verification of cement plugs
- More focus on data to improve Risk Assessment modelling
- A strong need for developing and maintaining P&A professionals



Current PACE members (aiming for 10 more by Q4 2020)





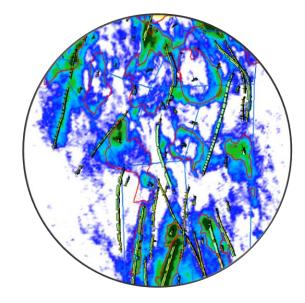
Current P&A Drivers

Prescriptive standards designed to cover all wells, including necessary safety factors for a very broad spectrum of well types.



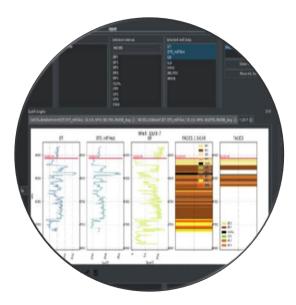
The Game Changer?

Experience and knowledge gained over the last decade offers an alternative approach to P&A design and execution



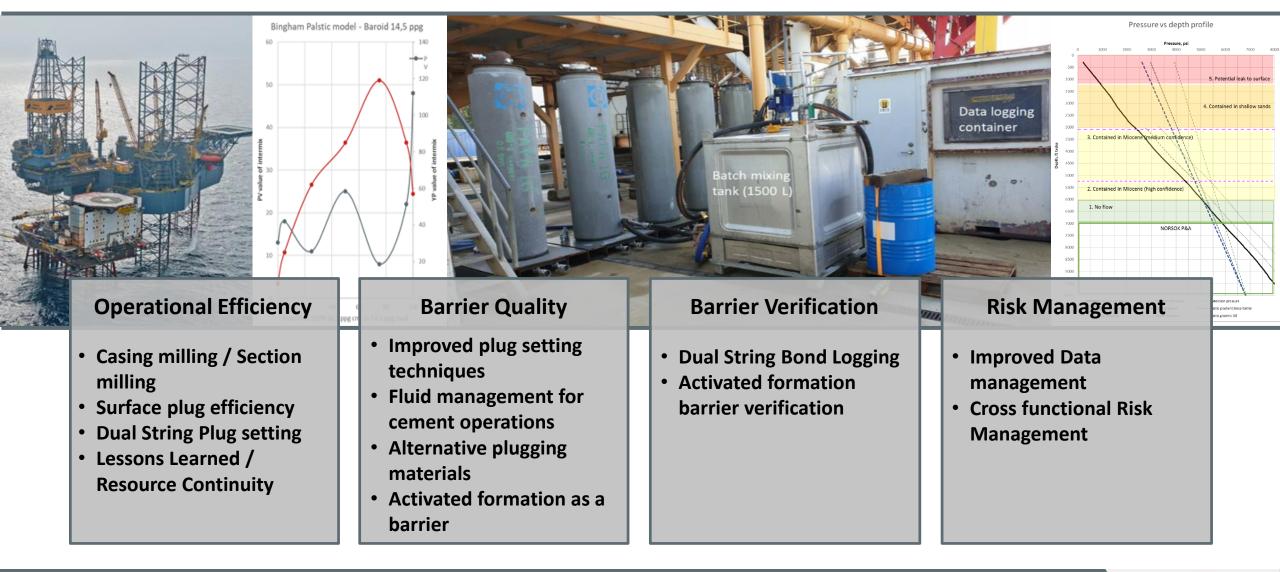
Future Risk Based P&A —

Establish and manage P&A Strategy Well specific P&A Design - multi functional risk assessment to determine plugging strategy



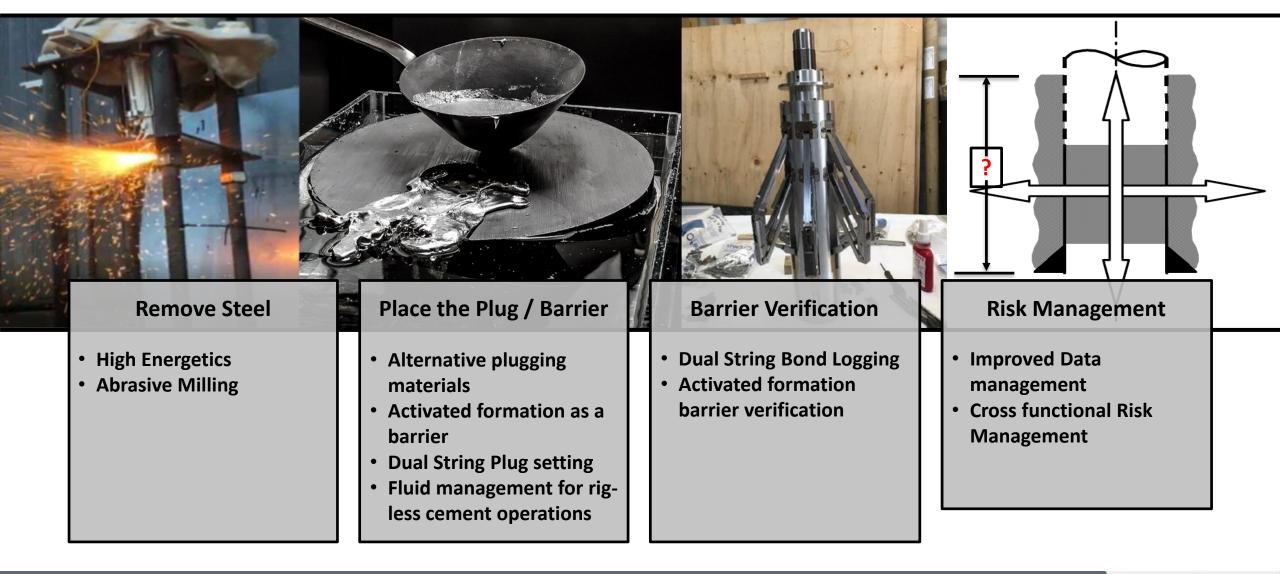


Future P&A Improvement Opportunities - Rig based P&A Solutions



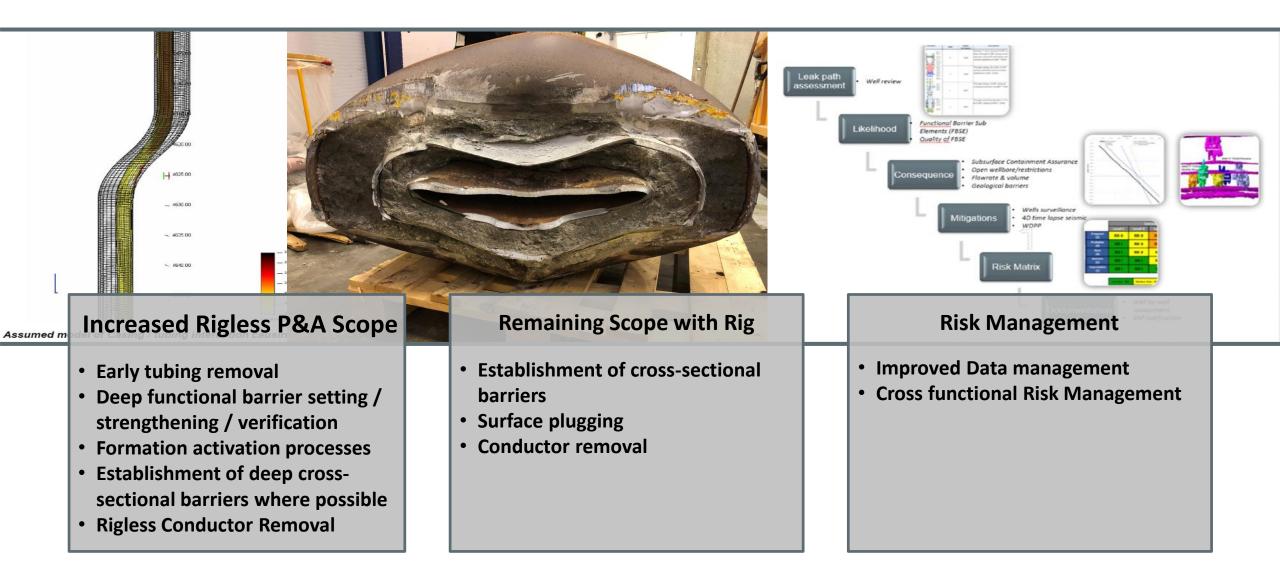


Future P&A Improvement Opportunities - Rigless P&A Solutions

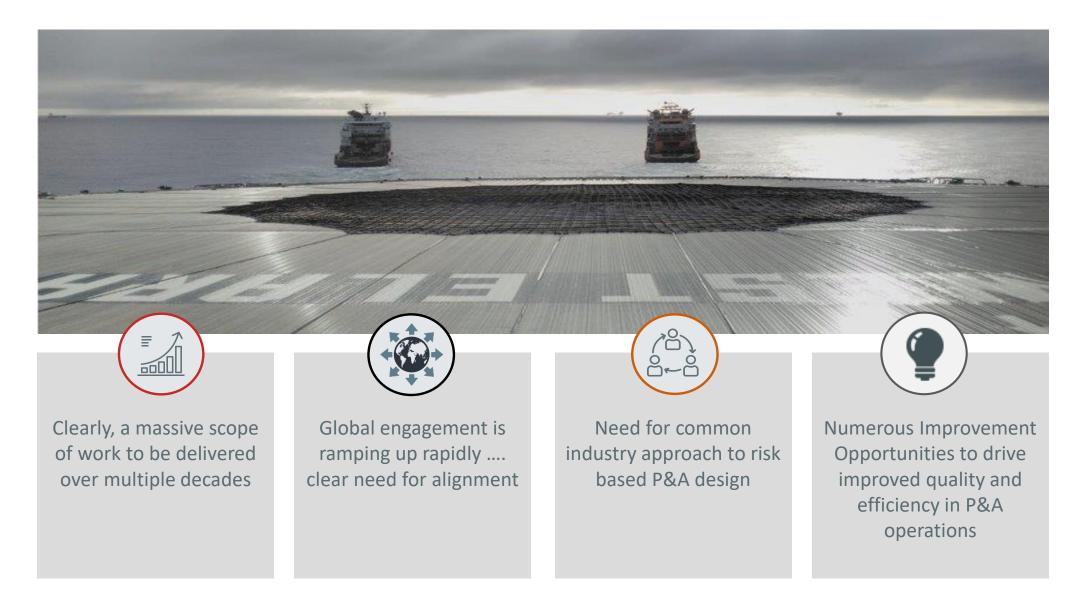




Future P&A Improvement Opportunities - Hybrid P&A Solutions







P&A Is **THE** growth sector in Global Oil and Gas

