

Decommissioning

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Resources: Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

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Agenda

- Brent Charlie: 40 Years Young
- Entering the Oil Industry
- The Decommissioning Mindset
- What is Plug and Lubrication (P&L)?
- Opportunities:
 - Production (I thought you said decommissioning?)
 - Operating Cost Reduction
 - Development
- Summary

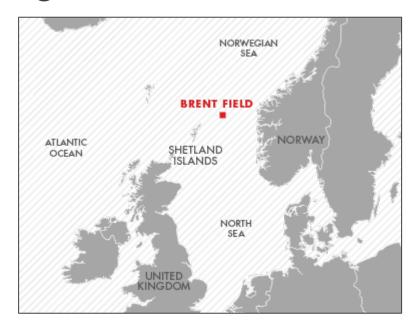
Brent Charlie: 40 Years Young

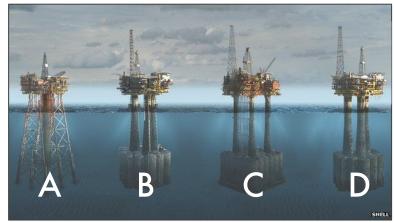
Brent Field:

- Discovered in 1971
- Producing for 40 years
- 50/50 JV with ExxonMobil
- Charlie last remaining producer
 - 16 active wells

Current Status:

- Alpha: P&L complete, P&A ongoing
- Bravo: P&A complete
- Charlie: Producing, P&L/P&A ongoing
- Delta: Topside lifted, legs capped





Entering the Oil Industry

- "Were there opportunities for new graduates anymore?"
- "How could a new graduate develop in such a climate?"
- "What was the general mood like surrounding the industry?"





The Decommissioning Mindset

Move from...

"Ensuring a well is fit for production"

To...

"Ensuring a well is fit for decommissioning"

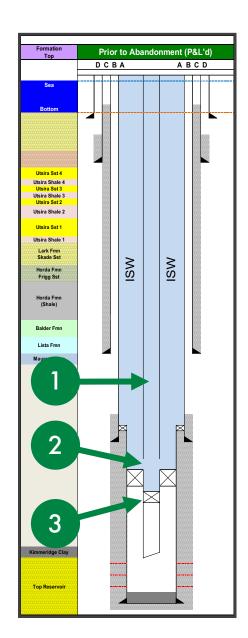
The platform priority **was** safely abandoning wells – starting with Plug and Lubrication (P&L).

What is Plug and Lubricate (P&L)?

- Deep set wireline bridge plug set to isolate from reservoir fluids.
- Tubing punched / perforated above production packer.
- Well lubricated to ISW and all HCs removed. 3

Why P&L a well upfront?

- Remove integrity risks for long term shut-in wells
- De-risks wells for Plug and Abandonment (P&A)
- Saves ~7 days rig time
- Opportunity to utilise wireline for other Shell U.K. Ltd



The Opportunities **Increasing Production**

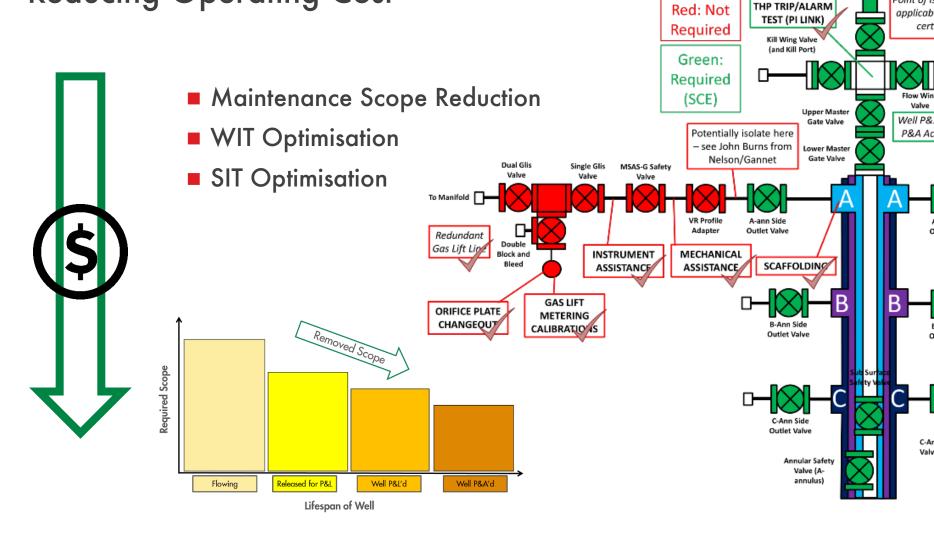


- Well Deliquification
- Scale Treatment
- Perforations
- Retrofit Gas Lift
- MSAS-G Installation
- SSSV/GLV c/o





The Opportunities Reducing Operating Cost



Key

Point of is

The Opportunities Professional and Technical Development

- Shell Graduate Development Programme
- 8 Key Competencies covered by 99 proof points
 - Only 3 are in Abandonment
 - 96 are in Production
- Now managed to develop 82/99
- Offshore team
 - Learn about topsides, intervention equipment
 - Pass on subsurface understanding





Summary

- Ultra Late Life does not mean no opportunities!
 - Simultaneous abandonment / barrel casing
 - Production gains / operational cost reduction
 - Professional and technical development



Move from "optimising for production" to "optimising for decommissioning"



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