



Unlocking barrels on a mature asset

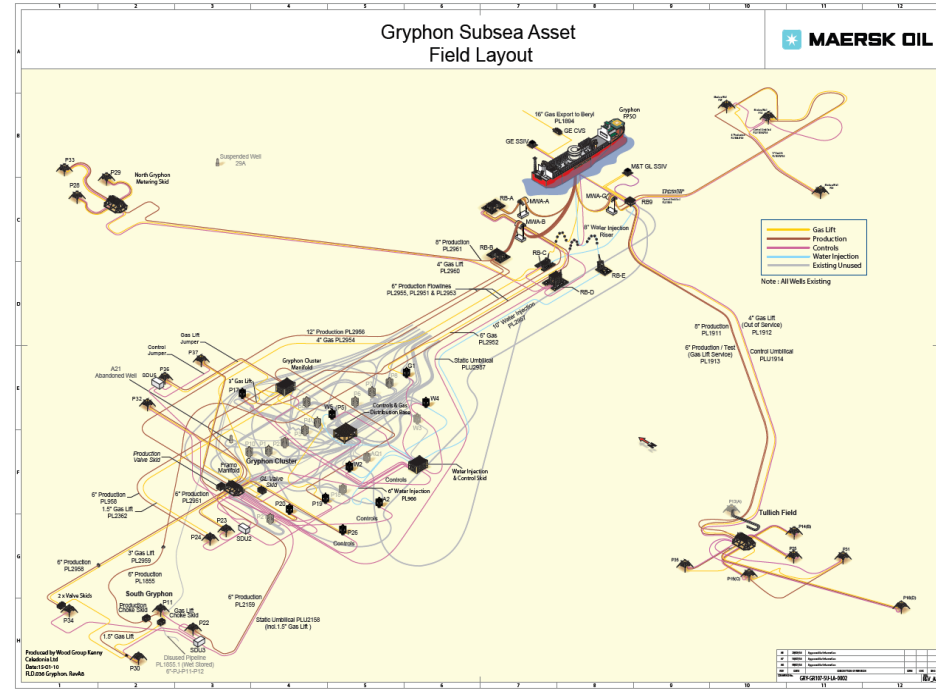
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DEVEX 9 May 2017

Gryphon FPSO-Producing the Limit

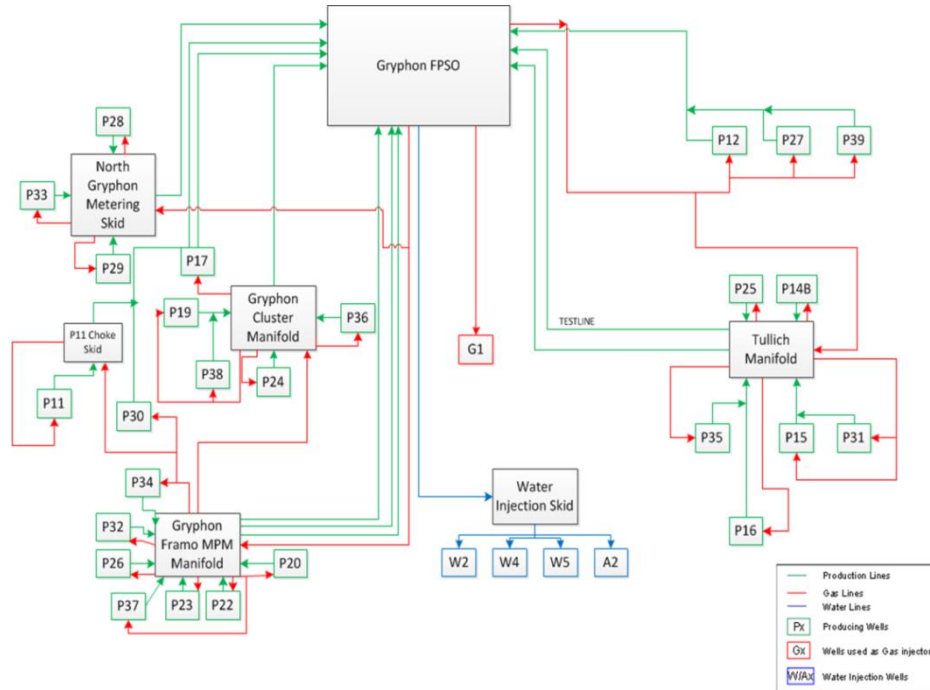
Gryphon

- 3 Fields
- Challenges to drill new wells
- Well reviews, facility reviews and produce-the-limit workshops
- 'Out of the box' thinking required to add more barrels



Subsea Infrastructure

- Shift focus from topside and well optimisation to existing subsea infrastructure
- Back-out effects and daisy chained wells



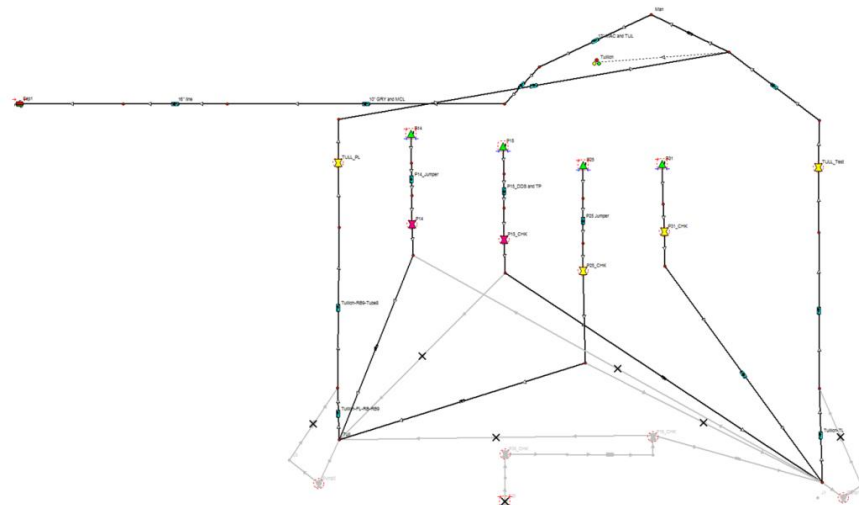
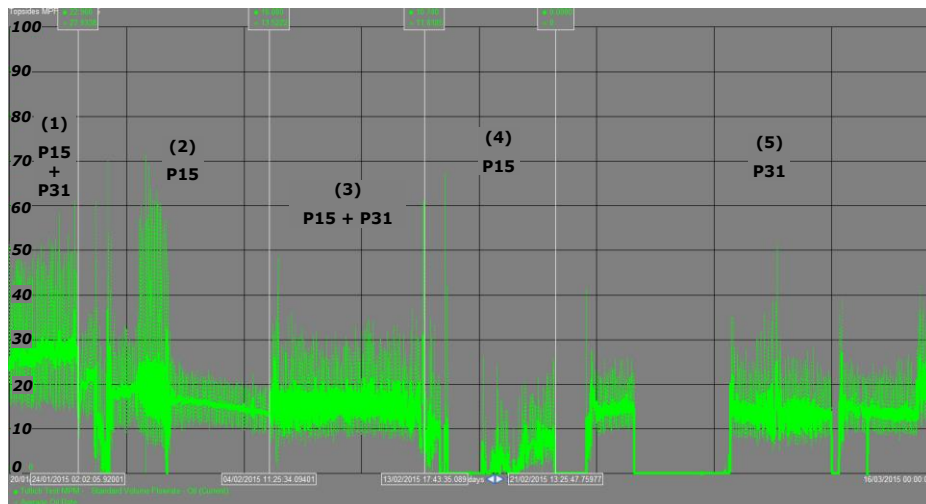
Tullich De-commingling

- Old wells shut-in for commingled setup
- New manifold



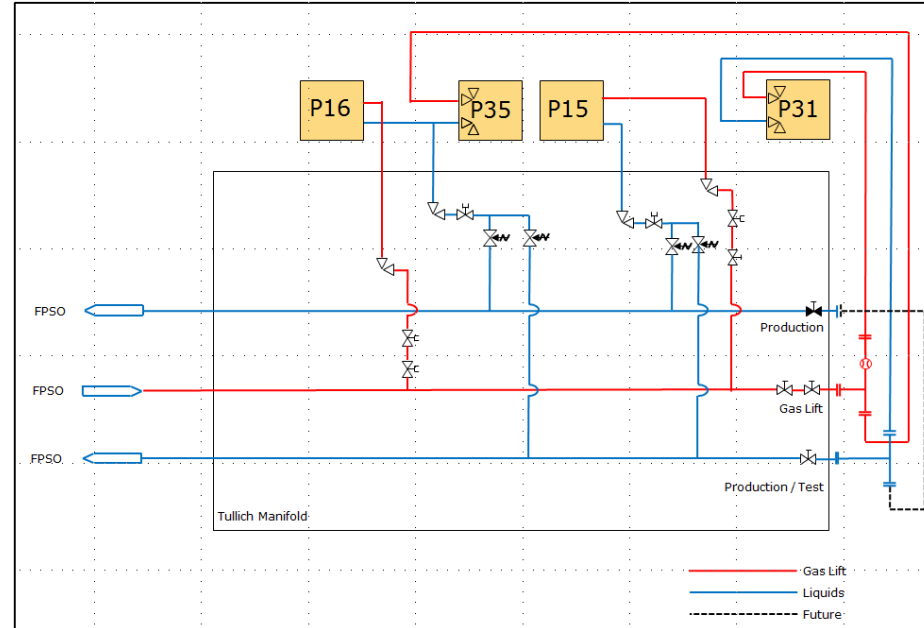
Our approach

- Flow trial and IPSM modelling performed
- Subsea scope
- Payback period



Results

- Successful Incident-Free execution, within budget
- 1,200 bbls added
- Payback in 30 days

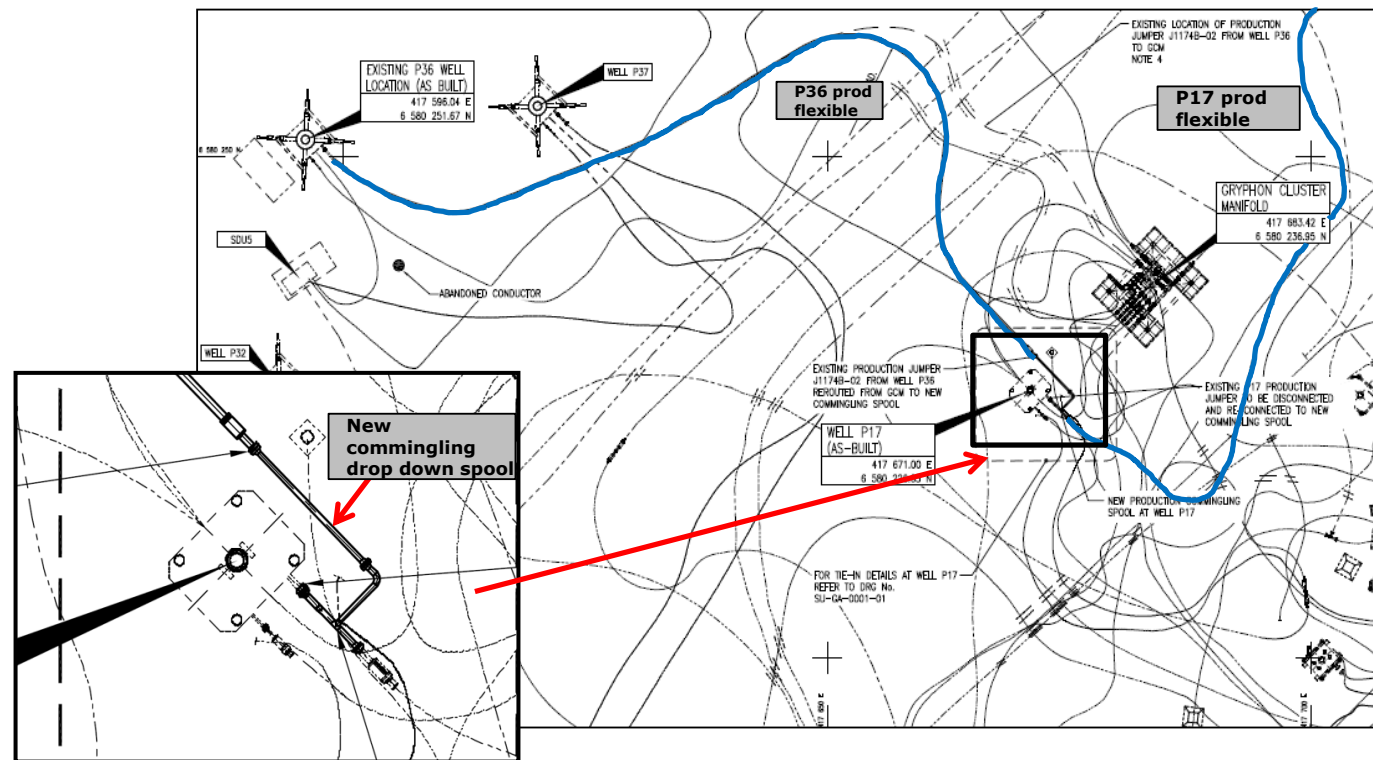


Other opportunities

- Success increased confidence for other projects
- P36/P38 re-route project initiated
- Learnings from Tullich project incorporated



P36/P38 Re-route



Conclusions and Lessons Learned

- Two subsea infrastructure projects successfully completed
- Successful approach:
 - payback period
 - robust modelling
 - flow trials
 - integrated approach with subsea team
- Future projects require procurement of production flowline

