

Fairfield Energy Limited

Greater Dunlin Area Decommissioning Project

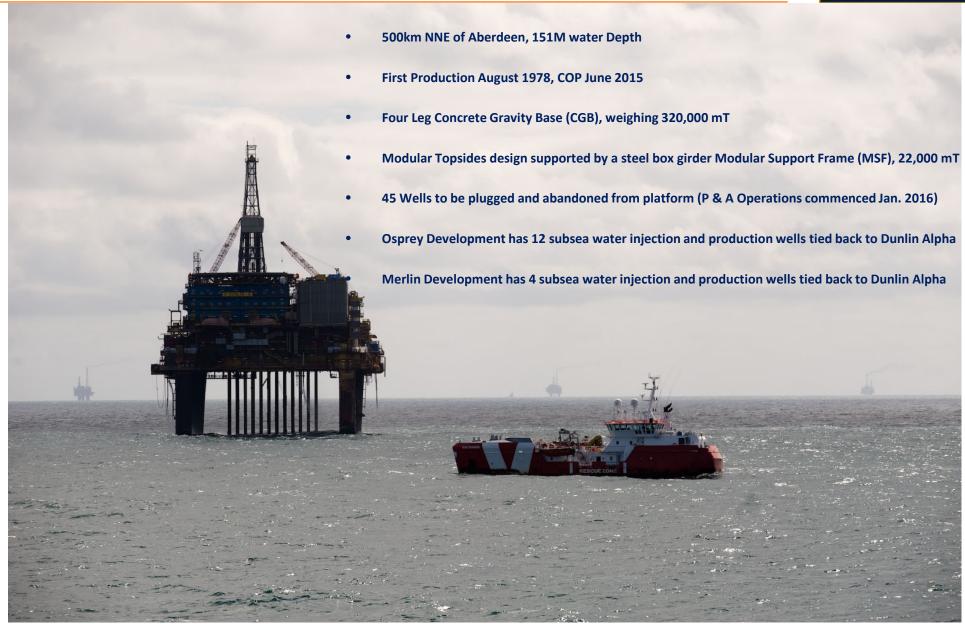
Collaboration & Innovation in Decommissioning Session

Challenges Presentation 12/09/2018

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Fairfield Energy – Greater Dunlin Area Decommissioning Project





Challenge 1. Dunlin Alpha Conductor Removal



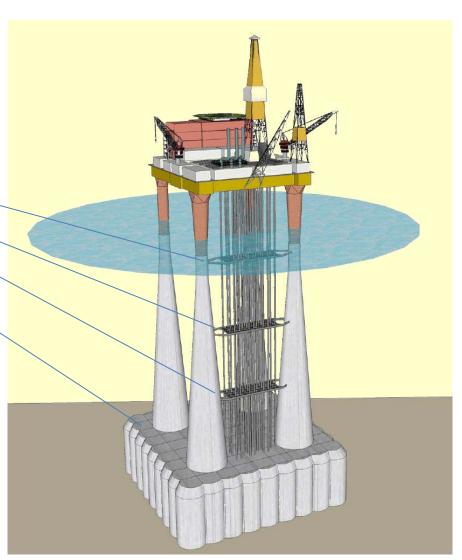
Originally 48 Slots

45 Well Conductors (DA-11 now removed)

LAT EL (+)0m

Conductor Guide Frame 1 EL (-)10m
Conductor Guide Frame 2 EL (-)40m
Conductor Guide Frame 3 EL (-)76m
CGBS Top of Base EL(-)119m

- RIS system currently working along side RIG
- Oil and Gas Technology Centre looking at recovery to sea
- No "Golden Bullet" Solutions yet
- Half Shell Handling difficult "Quick Deck" has been installed along with underdeck steel handling rails
- Conductor section cutting and drilling tools slow
- Recovery to sea options to be further explored

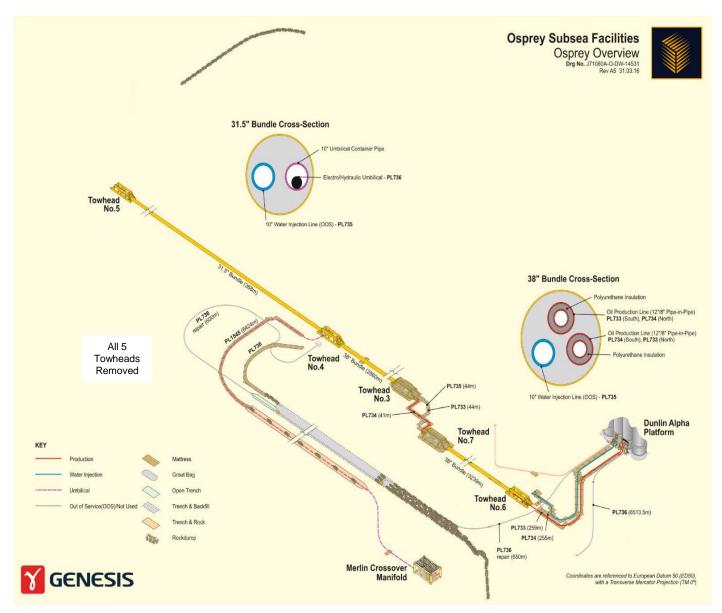


Challenge 2. Osprey Bundle Removal



Osprey bundle ends to be rock-dumped to provide an over-trawlable profile as part of the approved Decommissioning Programme (DP) scope of work.

- Leaving bundles results in liability in perpetuity (further survey and Rock Dump requirements)
- Cutting up is vessel and diver intensive and creates significant disturbance
- Re-burial can result in less coverage than already exists (stiff clay soils).
- Bundles not designed to be re-floated.
- New concepts welcome!



Challenge 3. More Effective Re-Use of Inventory



Three ESP Control Units



- Decommissioning releases a lot of inventory
- re-sale value of inventory is generally negligible
- We would be happy to give some equipment away
- Each Operator has their own computerised purchasing and stock management/warehousing systems which are incompatible with each other.
- Re-use opportunities are being missed.
- No Operator has the time, resources or inclination to standardise their inventory coding and material management, (see point 2.)

Could industry "mine" Operators data with Al Algorithms to match up "Like for Like" inventory and find Operators that have similar equipment.

All The Rest!



Mitsubishi Offshore Specification Diesel Engine



Inventory Successes

- Recovered Osprey Subsea Xmas Tree sold to Anasuria Operating Company
- Three Platform Xmas Trees sold to Taga
- All our recovered well casing is being purchased by RAM tubulars for re-use in the Civils construction industry
- Entire subsea controls inventory sold to Anasuria Operating company

There must be more of these opportunities? Perhaps data matching is the key?