

**PROJECT:**

# Balnaves & MEFF Fields Decommissioning Studies

under-promise  
over-deliver



**CLIENT:**  
KUFPEC Australia  
**LOCATION:**  
North West Shelf  
**DATE:**  
2014



The Balnaves Field and the Mutineer, Exeter, Fletcher and Finucane (MEFF) Fields are located offshore North Western Australia, approximately 75km Northwest of Varanus island and 150km Northwest of Dampier respectively. The Balnaves Field consists of two production wells, one water injection well and one gas injection well. Production fluids are gathered via a subsea production manifold with subsea control module. Production chokes on the manifold deliver produced fluids into dual 8" production flowlines. These flowlines are routed to the FPSO with disconnectable Riser Turret Mooring (RTM). The MEFF development consists of a group of 4 separate fields. The reserves are extracted using subsea wells with flowlines tied back to local manifolds, then to a central manifold and mooring to a FPSO.

KUFPEC Australia engaged Linch-pin to provide expert decommissioning consultancy services to develop concepts for the removal/abandonment of the subsea facilities including P<sub>10</sub>, P<sub>50</sub> and P<sub>90</sub> cost estimates and a detailed schedule for the Concept, Select, Define, Execute and Relinquish phases of the removal/abandonment campaign. The scope included the RTM, risers, umbilicals, chain, mooring anchors, flowlines, spools, manifolds and umbilical termination assemblies.

In addition, Linch-pin provided P<sub>10</sub>, P<sub>50</sub> and P<sub>90</sub> cost estimates and a detailed schedule for the plugging and abandonment of all subsea wells. Linch-pin's specialist well plugging and abandonment consultancy services specified the governing legislations, standards and guidelines as well as provided the relevant design parameters, technical descriptions and methodologies as part of this work.

