



Coogee Resources: Montara

The Montara, Skua and Swift/Swallow oil fields are located in the southern Timor Sea approximately 650km west of Darwin. The Montara oil field is approximately 82 kilometres south-west of the existing operations at Challis. The Skua oil field is located 25 kilometres north-west of the Montara oil field and the Swift/Swallow oil field is located 9 kilometres south-east of the Skua field.

The Company intends to develop the Montara Project via an FPSO located at the Montara field with tie-backs to the Skua and Swift/Swallow fields via flowlines. The development plan for the Montara Project involves nine producing wells, of which six will be drilled in Phase 1 (currently scheduled to be completed in the third quarter of 2008) and three will be drilled in Phase 2 (currently scheduled to be completed in the third quarter of 2009). Coogee Resources has commenced work on the design, engineering and procurement activities for the Montara Project. Facility construction began in July 2007 and development drilling is scheduled to commence in early 2008.

The initial phase of development consists of two production wells each at Montara, Skua and Swift fields. A gas re-injection well will also be completed at Montara to provide pressure support. A year later, the second phase of development will include two additional production wells at Montara and one at the Swift field with a second well as an option (future).

A wellhead platform (WHP) will be located at Montara field in approximately 77 metres of water. Four production and one gas injection wells will be drilled by a jack-up drilling rig through the WHP. One (1) spare slot will be provided for future completions. There will also be future provision for a subsea tieback to the WHP. The wellhead topsides will incorporate a helideck, a crane for well servicing operations, navigation aids, dry wellhead trees, a production manifold, a gas re-injection wellhead and multi-phase flow metering.



Scope of Delivery

- Project management overseeing analysis and ensuring final design reports capture all the analysis work required for the detailed design
- Development of Dynamic Umbilical Design Premise for the detailed design of the JDR Umbilicals
- Detailed design of the umbilicals commencing with configuration selection and extreme dynamic analysis to provide interface loads and bend stiffener design parameters
- Detailed design of bend stiffeners for the umbilicals and further analysis including; mooring line-umbilical interference analysis, global and local fatigue analysis, and anode design for Cathodic Protection of the umbilicals
- Bid review for NKT and Wellstream; including optimisation of mooring configuration
- Installation support for Flexibles, and static and dynamic Umbilicals; cumulating in the development of installation procedure lay tables incorporating dynamic analysis results from critical stages
- Interference analysis of the flexibles and umbilicals with mooring lines in the final stages of the installation.

Benefits

- Robust umbilical design which will achieve full field design life
- Consistent approach and knowledge applied to the design of the dynamic umbilicals thus ensuring consistency and completeness
- Strong negotiating position with the flexible pipe vendors due to prescriptive specification and expert technical knowledge throughout the negotiating process
- Mooring configuration optimisation feasibility study indicated possible options optimise the configuration without increasing mooring line capacity
- Thorough dynamic analysis of installation procedure ensured critical stages in the installation were identified and managed
- Interference analysis undertaken in the final installation stage dictates the vessel position that will ensure integrity of the structures is maintained.