



Umbilical Loadout on Skandi Acergy



Field Information

The Greater Western Flank (GWF) area is located on the North West Shelf, offshore Western Australia and comprises a number of different fields in water depth ranging from 79m to 130m.

The North West Shelf project produces gas and condensate via the Goodwyn A (GWA) platform via a network of pipelines to the Woodside operated - Karratha Gas Plant. The GWF-Phase 2 project represents the next phase of gas supply to GWA.

Source: Adapted from Woodside.com.au



OUR VALUES



PROJECT CLIENT

Woodside Energy Ltd



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation

Greater Western Flank Phase 2

Project at a glance

The Greater Western Flank Development (GWF) comprises of the Keast, Dockrell, Sculptor Rankin, Lady Nora and Pemberton fields which will be developed through a subsea tie-back to the Goodwyn A platform (GWA). The GWF-Phase 2 scope of work included transportation and installation of a 33.4km subsea umbilical and four manifolds as well as metrology, fabrication, transportation and installation of five subsea structures, 18 spools and pre-commissioning.

Full project information overleaf

Highlights

- Structure and premetrology spoolpiece fabrication performed in Vung Tau, Vietnam.
- Post-metrology spoolpiece fabrication performed in Dampier, West Australia.
- Support fleet included survey support vessel, tugs, barges, supply boats and a heavy lift vessel.
- Excellent use of readiness reviews and lessons learned prior to a successful umbilical transpooling campaign.
- Socialising safety with the workforce through the use of office toolbox talks, crew engagement and supervisor workshops.
- Successful implementation of a charity reward scheme linked to safe completion of phased operations.
- Incident-free delivery across all worksites.

Our Differentiators





Greater Western Flank Phase 2

Project

Greater Western Flank Phase 2

Location

North West Shelf, Australia

Water depth

79m to 130m

Project Type

SURF

Date Awarded

Q4 2016

Completion Date

Q4 2018

Vessels

Skandi Acergy

Scope of Work

- 33.4km of steel tube umbilical laid in four sections between GWA platform and Lady Nora drill centre.
- 3x 4-slot manifolds at Lady Nora, Sculptor/Rankin and Keast/Dockrell fields.
- 2-slot manifold at Dockrell.
- Mid-line connection structure between GWF-1/GWF-2 SSIV and GWA Pipeline End Termination (PLET).
- 2x 16-inch outside diameter (OD) expansion tie-in spools connecting GWF-2 PLET to GFW-Phase 1/GWF-Phase 2 subsea isolation valve (SSIV) via mid-line connection structure.
- 8x 10-inch OD tie-in spools connecting in-line tees to manifolds at Dockrell, Keast/Dockrell, Sculptor/Rankin and combined PLET/in-line tee at Lady Nora respectively.
- Spool connection assembly structures located at the mid-point of the 4x 10-inch OD tie-in spools.
- 8-inch OD rigid well jumper spools, one at Dockrell, two at Keast/Dockrell, two at Sculptor/Rankin and three at Lady Nora connecting manifolds to wells.
- Electrical and hydraulic flying leads connecting various subsea hardware components.
- Crossings, scour protection, secondary stabilisation and various support works
- Pre-commissioning.

Project Milestones

- Fabrication: July 2017 - August 2018.
- Offshore Installation: July - October 2018.

Collaboration

Close collaboration between Subsea 7, the client and sub-contractors to develop and implement a project charter, culture, safety initiatives and successful delivery. This included:

- Implementation of innovative safety initiatives embedded across the project
- Structured training, familiarisation and competency plan to maximise crew engagement and the transfer of knowledge from core crew to transient Australian crew
- Use of office toolbox talks to socialise safety within the workplace, owned and facilitated by individuals within the team helping to foster a culture of safety leadership
- Challenging the team to deliver 'an incident free' project by consulting the project team, dividing the operations into small manageable pieces with clear ownership and expectations
- Celebrating success and recognising positive contribution.