



ROAM MARINE

Z Marine Pty Ltd
ABN 52 144 660 702
34 Crossways, Cnr Rokeby & Bagot Rd
Subiaco, WA 6008, Australia

Mb 0413 933 163
Phone 9381 9091
Email mhannaford@roam-marine.com
Web www.roam-marine.com

Project: Bayu Undan – Mid Depth Buoy

Client: Phillips
Contractor: Coflexip Stena Offshore
Year: 2001
Contract period: 3 months

Project scope:

Design, fabricate and install flowlines for the oil offloading buoy at the Bayu Undan development in the Timor sea. The scope includes two 10” and two 6” flexible risers that are supported by a mid depth buoy in 80m of water.

Roam scope:

Design of gravity base, tether chains, mid depth buoy and flowline clamps. Design work included geotech, pressure vessel, chains, lifting, sea transport, fatigue and cathodic protection.

Preparation of all required calculations, reports, fabrication drawings and material quantities.

Gravity base was a steel and concrete structure with a mass of 207t. It relied on submerged weight and skirts for stability on the soft clay seabed.

The 121t buoy consisted of a tank 3.7m dia * 18m long supporting an arch approx 10m dia * 17m long.

The entire buoy assembly - complete base, tether and buoy - was installed as one lift.

