

# Galoc Field, Philippines

## Upgrade to FPSO Rubicon Intrepid Mooring System



At the beginning of 2011, Orwell Offshore was contracted to design and engineer a permanently moored, bow mounted column turret for retrofitting onto the FPSO Rubicon Intrepid. The Column Turret has full 360° weathervaning capability and has capacity for up to six 6" risers (or umbilicals) and is equipped internally with a 6" fluid swivel stack.

Orwell's scope was to engineer the design of the FPSO turret along with its moorings, risers and umbilical system. In addition, project management, construction integration engineering and offshore installation support was provided.

The FPSO left station in October 2011 and returned to site late March 2012. First oil was produced in April 2012.

In August 2013, Orwell Offshore completed a successful upgrade of the FPSO for the tie-back of two new wells via an additional riser and umbilical.

In November 2013 the FPSO was directly in the path of Typhoon Haiyan. The FPSO experienced winds in excess of 100mph and maximum wave heights of approximately 15m. No damage was sustained to the FPSO or Turret and production was restarted approximately 48 hours after the eye of the storm had passed over the FPSO and post storm inspections had been carried out.