

## República Democrática de Timor-Leste Newspaper Advertisement

PROVISION OF MODELLING AND STUDIES FOR THE BAYU-UNDAN WELL ABANDONMENT PROGRAM  
(BUWA)

ConocoPhillips is the operator of the Bayu-Undan Facility, which is located within the Timor Sea Joint Petroleum Development Area.

Pursuant to clause 10.1 of the Production Sharing Contract, ConocoPhillips is seeking expressions of interest from Companies capable of providing the referenced goods or services to the Oil and Gas Industry who are a duly incorporated entity under the laws of República Democrática de Timor-Leste or Australia and who meet the minimum requirements listed.

**Description of Goods / Services:****1. Conductor/ Riser Analysis****Minimum Requirements:**

- Provide analysis to calculate the fatigue damage accrued during the previous drilling campaign.
- Determine fatigue damage to critical components on the Wellheads.
- In case of low fatigue life on the wellheads provide contingencies and recommendations.
- Provide fatigue analysis and VIV (vortex-induced vibration) analysis report.

**2. Gas Dispersion Modelling****Minimum Requirements:**

- Capability to model a worst-case discharge with known metocean conditions to provide gas dispersion modelling. Specifically, gas plume modelling for a range of gas and condensate rates using reservoir data.
- Based on the modelled maximum oil and gas rates, water depth and sea conditions, model the plume behaviour to estimate surface gas/oil expression from the uncontrolled flow, LEL (lower explosion limit) and VOC (volatile organic carbons) levels at surface in the vicinity of the well location.

**3. Wellbore Stability Study****Minimum Requirements**

- Provide Geomechanical modelling software that can identify and analyse hole stability problems at different inclination, across different formations.
- Model the effect of drilling fluids which differ in density and base fluid (i.e aqueous or non-aqueous).

#### 4. Well Blowout Study

##### Minimum Requirements:

- Model a well kill operation to determine the number of kill wells, that would be required to be drilled, in order to kill the blowout well flowing at the modelled worst-case discharge rates.
- Determine a range of volumetric rates and fluid densities to kill the well in the worst-case discharge scenario, then evaluate this against typical Jack-up Rig capabilities.

Companies who meet all of the minimum requirements are invited to submit their written expression of interest by email or hand delivery no later than **31<sup>st</sup> May 2019** for the attention of Reinalda Pires, Purchasing Officer.

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"The Timor Sea Treaty between the Government of Timor-Leste and Australia and the Production Sharing Contracts require that in providing these goods/services, all interested companies shall give preference to the employment of Timor-Leste nationals and permanent residents, having due regard to safe and efficient activities and good oilfield practice."

This advertisement can also be viewed at <http://www.conocophillips.com.au/our-business-activities/supply-chain-west/Pages/Expressions-of-Interest---Bayu-Undan-and-Timor-Leste.aspx>.