



FOR IMMEDIATE RELEASE – 16 Mar 2012

**Amarinth delivers innovative vertical pumping solution
for Kumul Platform PNG**

Amarinth, a leading company specialising in the design, application and manufacture of centrifugal pumps and associated equipment to the industrial, chemical and petrochemical industries has delivered an innovative open drain pumping solution to be installed in the caisson of the Kumul Oil Platform located 40km off the southern coast of Papua New Guinea.

The bespoke API 610 VS4 vertical sump pump will be installed in a caisson (leg) as part of a \$25 million “Topsides” rejuvenation project of the Kumul Platform located in the Gulf of Papua. Any water or oil that drains from the platforms structure or from its production systems is channelled into the open drain caisson to prevent any environmental impact on the sea around the rig.

The duty is to pump hydrocarbons and excess water that collects in the caisson to the closed drain accumulator for safe disposal via a “take-off” tanker. This required a 13m long vertical sump pump with an arrangement for low pressure injection of hypochlorite used to prevent the build-up of marine growth. Additionally, due to the angle of the caisson, the pump had to be installed and operate at a 5 degree angle.

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Amarinth was approached to deliver a cost effective solution for this difficult engineering requirement. An API 610 VS4 sump pump was selected for the duty but to overcome the height restrictions of the platform Amarithh designed this as a modular pump that could be dismantled and installed in four sections.

The 5 degree angle of the caisson also presented further challenges for the installation as the pump had to be carefully lined up with the caisson wall. Working closely with the customer, Amarithh designed an innovative adjustable roller system on the pump that aligned with guide plates attached down the inner wall of the caisson as the pump was lowered in.

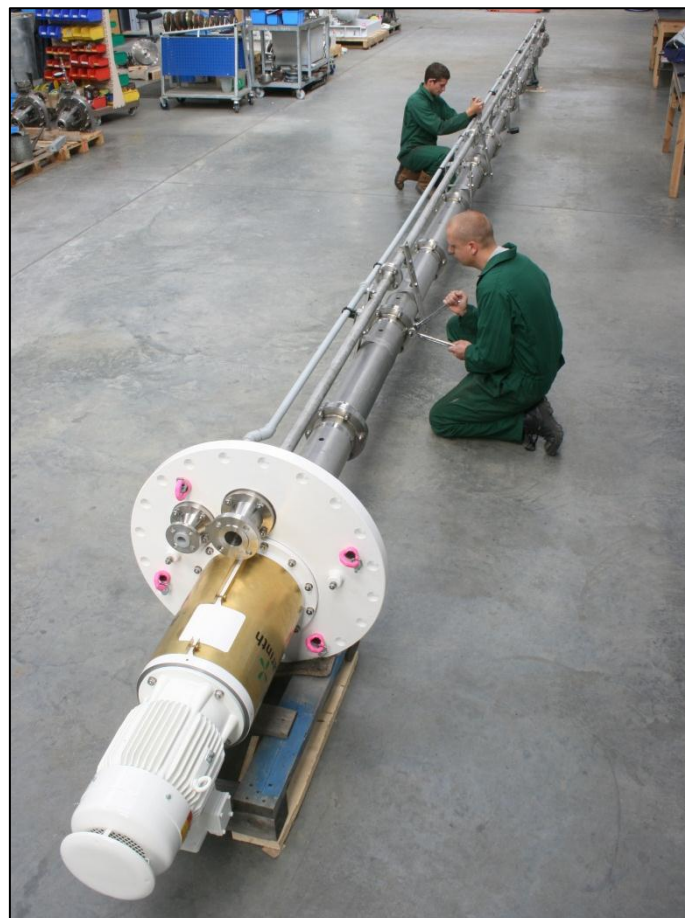
The bearings and seals were also put under additional pressure due to the 5 degree angle and so to guarantee the performance and reliability of the pump Amarithh built a test rig to replicate the operating conditions and mounting system to ensure that the final design took account of the additional stresses and vibrations as a result of the alignment.

Oliver Brigginsshaw, Managing Director of Amarithh, commented: “We are delighted that we were able to deliver a solution for this unique requirement from the other side of the globe. Using a combination of our proven API 610 VS4 pumps, the work we have done previously with modular designs for restricted headroom, and the ingenuity of our engineers, we were able to provide a very cost effective solution that met the requirements and tight timescales of this project.”

OPTIONAL PANEL or BOX ITEMS



Kumul Oil Platform, Papua New Guinea



13m API 610 Vertical Pump for Kumul Oil Platform, Papua New Guinea

NOTES TO EDITORS:

Founded in 2002, Amarith has harnessed the skills, creativity and passion of people who have worked in the pump industry for many years. Amarith delivers world-leading expertise in the design, application and manufacture of centrifugal pumps and associated equipment to ISO, ANSI & API standards, primarily for the industrial, chemical & petrochemical markets. Their portfolio includes:

- **Pumps:** Horizontal and vertical API 610 pumps, chemical and industrial pumps, many of which are interchangeable with the Girdlestone pump ranges, eliminating the need for expensive modifications when replacements are required.
- **Pressure Vessels:** Protect System Plan 52 and 53A and 53B sealant systems with inbuilt condition monitoring for pumps and mixers that are suitable for Safe area up to Zone I.
- **Spares & Service:** High quality, fast lead-time re-engineered spare parts to improve performance and extend pump life, including many which are directly interchangeable with the Girdlestone pump ranges.
- **Packages & Modules:** Condensate Recovery Units manufactured for Spirax Sarco incorporating the innovative Ci-Nergy intelligent variable speed control system, plus bespoke packages & skids built to order.
- **Business Systems:** state-of-the-art e-commerce technologies that deliver 24/7 support enabling customers to select pumps and place orders on-line and then track every stage of manufacture through to delivery, any time, anywhere in the world.

The company operates globally from its base in Rendlesham Suffolk, United Kingdom and has a customer base of world-leading companies, including BP, Shell, ExxonMobil, GlaxoSmithKline, Pfizer, Spirax Sarco, Diageo, AMEC, Fluor and Halliburton.

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