

Cuming Corporation News

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MAJOR NEW CONTRACT FOR MULTIFUNCTIONAL SYNTACTIC FOAM

Cuming Corporation announces a major new contract, part of a growing trend towards products that solve multiple challenges. The follow-on project in West



Loading pipe joints for a major West African field.

Africa highlights Cuming's capability to provide key developers with materials suitable for extreme ocean conditions. Companies are moving beyond materials with insulation or

buoyant properties alone, to new hybrid materials with custom protective capabilities.

For example, Cuming recently insulated pipe joints to 4,000 feet and provided field joints for a major producer. But the same producer needed built-in protection for its jumpers under a worst-case scenario: vortex-induced vibration on the sea floor. Working with the customer's computer

simulation of a 100-year storm,

Cuming designed composite modules with properties precisely tailored to offset



OTC 2004
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Bayou Flow Technologies



Bayou Flow Technologies, LLC



C-THERM field joint collars are designed for ease and speed of installation.

these conditions. In just three weeks time, our Avon, MA plant produced 90 pairs of the modules.

In another example, Cuming produced couplings for a client needing

multifunctional protective properties. Designed to guard the riser against wave zone erosion, the new couplings combine thermal insulation and electrical isolation with great strength.



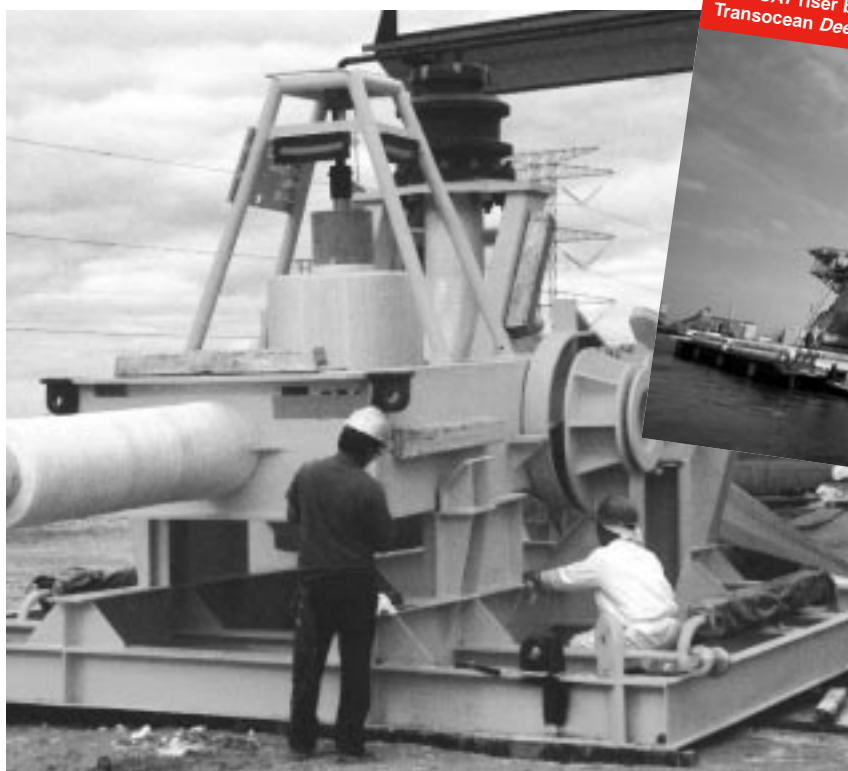
Installing a C-THERM field joint in West Africa.

NEW MODULE DESIGN

Cuming Corporation is producing replacement riser modules for Noble *Victor Muravlenko*, an aluminum riser used to depths of 5000 feet. Unique to this job are the 182 riser guard modules used at the bottom of the module string. These super ruggedized modules are non-buoyant with inset side channels. They protect the riser by stabilizing each module string as it is run and retrieved.



Victor Muravlenko C-FLOAT modules feature design enhancements to protect the riser during running and retrieval.



C-THERM pack-in-place insulation helps with flow assurance on three Shell Llano sleds.

C-FLOAT riser buoyancy modules contributed to Transocean Deepwater Nautilus latest drilling record.



WORLD RECORD
Transocean Deepwater Nautilus set its third world water-depth drilling record for a moored rig, this time reaching 8,717 feet in the Gulf of Mexico. Cuming Corporation provided all 736 buoyancy modules used by Deepwater Nautilus in achieving its record drilling depths.

DEMONSTRATING C-FLOAT VERSATILITY

C-FLOAT applications are finding their way into shallower waters much closer to shore. In Long Island Sound, for example, a pipeline began sinking into soil over undersea power cables. Cuming provided 40 C-FLOAT buoyancy

modules to compensate for the pipeline's weight. This critical order, complicated by the need for various module sizes, was turned around in just two weeks time.

TECHNICAL PRESENTATIONS

Cuming Director of Research and Development Wen-Tsuen (Vincent) Wang will be delivering technical papers at both Offshore Mechanics & Arctic Engineering and Society of Experimental Mechanics this spring. Both papers discuss multifunctional uses for composite materials for insulation, buoyancy, fail-safe operation, electrical protection and corrosion protection. Reprints of these and other papers will be available through any of our contacts listed on the back page.



Wen-Tsuen (Vincent) Wang, manager of Research & Development

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