

## Alaska Journal of Commerce

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# State's biggest barge crane aids Inlet salvage operation

By Jonathan Grass  
Alaska Journal of Commerce

In March, a mechanical failure caused a 180-foot steel fender to detach from the Christy Lee oil-loading platform on the west side of Cook Inlet near Kalgin Island. Now a major diving operation is under way to retrieve the sunken piece for repairs.

Size matters for this operation. The biggest marine crane currently operating in Alaska has been commissioned to lift the massive piece of infrastructure. The Derrick Barge Salvation is 300-foot by 90-foot barge with a 600-ton crane. It has the capacity to lift 600 tons off the stern and 350 tons over the side.

The Salvation also carries a 110-ton capacity support crane and a four-way mooring system to assist in the rigging and service lifts.

Pacific Pile and Marine is operating the Salvation and providing the heavy lift support. The Salvation is the largest piece of its marine construction fleet.

The specialized machine will pull the dormant fender off the ocean floor. It will then be raised, repaired and reattached.

"I suspect before the end of October it will be fully installed and back functioning," said Hilcorp Facilities Manager Bo York said. Cook Inlet Pipeline



PHOTO/COURTESY/GLOBAL DIVING & SALVAGE

The DB Salvation was brought to the Christy Lee oil loading platform in Cook Inlet by Pacific Pile and Marine. The 600-ton crane will lift the fender that detached and sunk in March. Global Diving & Salvage will do the dive work for the project.

Co. owns the Christy Lee while Hilcorp is the parent company. Cook Inlet Pipeline is a common carrier company, enabling the two to operate independently.

The repairs are mostly for the hoist mechanism, which is what failed in March. The fender itself will require minor repairs.

Christy Lee is an offshore platform that's unique in Cook Inlet in that it's an oil-loading facility as opposed to being an exploration and production platform.

The fender acts as a buffer for

offloading vessels. After it dislodged and sank, Tesoro Maritime Co., which is Christy Lee's sole shipping customer, was worried about sending tankers to the platform. York said a tanker vessel typically goes into the port every 10 to 14 days so a solution had to be drawn fast.

"Without this fender there, Tesoro was not comfortable bringing their tanker vessel up," York said.

A temporary floating fender system was quickly installed.

This system could only be temporary because it would not be able to handle the winter ice in Cook Inlet.

York said having the temporary system hasn't affected productivity. The floating mechanism can handle the same vessels the mounted on can.

"From day one, it was fully functional," he said. "The only reason why it's temporary is because of the ice conditions."

Pacific Pile and Marine operates the Salvation. Division Manager Jason Davis said this project, combined with another for the U.S. Army Corps of Engineers, allowed Pacific Pile and Marine to commission the large crane. The company is already working on future projects to help justify a permanent home in Alaska for it. After this operation, the Salvation will aid in constructing the new Carl E. Moses Harbor breakwater in Unalaska.

Davis said the intention is to keep the Salvation in Cook Inlet so that it may service the oil and gas industry, but it will depend on demand. Davis said the company will expand its market search to Puget Sound if the need arises because there's been interest in that region. Still, he hopes to keep it here as an asset to the oil and gas industry.

"We really value this Alaskan market," he said.

Davis said Pacific Pile and Marine has a lease purchase agreement for the Salvation.

The diving support and salvage expertise comes from Global Diving & Salvage Inc., which has worked with Pacific Pile and Marine before. Part of the company's job is to attach the underwater piece of massive metal to the crane.

Global Diving's vice president of marine causality response, David DeVilbiss, said this project is a good example of a piece of equipment specially needed for one project but can be used for others.

"We've committed to keep marine construction working in Alaska," Davis said.

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THE INSTITUTE OF THE NORTH PRESENTS  
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August 13-18, 2012 – Anchorage, Alaska

[www.institutenorth.org/WOA](http://www.institutenorth.org/WOA)

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11:30am to 3pm  
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\$45 to attend luncheon panel;  
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The Northern Energy Science and Technology Fair is an excellent opportunity to engage with the science and technology behind developing renewable and extractive energy resources. The event will begin with a luncheon panel that will frame these themes. After lunch, attendees can visit the booths to view presentations and ask questions.

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Hotel Captain Cook Ballroom  
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Please join the Institute of the North for a special lunch with Julia Gourley. Learn about efforts to promote cooperation, coordination and interaction among the Arctic states on issues including oil spill response, search and rescue, marine shipping and environmental protection.

**ROBERT O. ANDERSON SUSTAINABLE ARCTIC AWARD DINNER**

**Friday, August 17, 2012**  
VIP Reception begins at 5:30pm; Dinner begins at 6:30pm  
Hotel Captain Cook Ballroom

The Robert O. Anderson Sustainable Arctic Award Dinner is the Week of the Arctic's signature event. The 2012 recipient is Red Dog Mine. Established in 2001, the ROA Award recognizes individuals and organizations that make outstanding long-term contributions toward balancing development of Arctic resources with respect for the environment and benefit to communities and peoples of the North. At the event you'll also learn about ongoing and upcoming projects at the Institute of the North and will have the opportunity to "adopt" projects of interest to you.

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Alaska Journal of Commerce (ISSN 0271-3276) is a statewide business newspaper of record published weekly (52 times a year) by Alaskan Publications, 301 Arctic Slope Avenue, Suite 350, Anchorage AK 99518. Alaskan Publications is owned by Morris Communications Corporation, P.O. Box 2123, Augusta, Georgia 30903-2123. (706) 722-6060. Member Associated Press (AP), National Newspaper Association, The Network of City Business Journals and ACCN. Periodicals Mail Postage Paid at Anchorage, Alaska 99502-9986. Subscriptions are \$45 per year in municipality, \$52/year rest of Alaska, \$70/year out of state and may be ordered by calling (907) 561-4772.

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