

## The Assembly Continues at Bardex Headquarters.

The last few weeks of 2012 has the Bardex assembly staff completing a large order of gripper jacks. This order includes 3 different capacities, 452Te, 680, and 750Te, for each pair of gripper jacks. The grippers shown are assembled at the Goleta, California facility and tested directly adjacent to the assembly area.

The final destination for this order is Russia; therefore Bardex had to call on our Russian translators to help us with commands for the hydraulic control console - See the etched control panel with the Russian text.



## ISO Certified

Bardex Corporation headquarters in Goleta, California, passed the October ISO audit which renews our certification through 2015. Bardex holds this certification in high regard and recognizes that our customers not only expect us to work to our proven methods of design, quality and assembly, but continue to maintain our continual improvements for these factors as well.



## Exhibitions



### MCE Deepwater Development 2013, March 18-20 2013, The Netherlands.

This is one of the leading conferences addressing technical issues related to engineering, development, and production of oil and gas in deep and ultra deep water around the world. Bardex will have a Booth in the related exhibition arena.



### OTC May 6-9 2013 Houston Texas

Founded in 1969, OTC is the world's foremost event for offshore resources. Last year the show hosted almost 90,000 visitors from 110 countries. If you plan to attend, please visit our booth to meet some of our senior staff and discuss our products with us. **Bardex will be at - Booth 4063**

## LLOG



Bardex Corporation is pleased to announce that after completing the Initial Design Program, LLOG Exploration Company, LLC awarded Bardex an order for the full design, manufacture and supply of a moveable chain jack mooring system. This system will be employed on a semi-submersible production vessel in the Gulf of Mexico. This complete mooring system will comprise four moveable chain jacks arranged for handling 137 mm Grade R4 studless chain and rated for a 1,100 kips stall capacity, twelve chainstoppers rated to hold the chain break strength, twelve turndown sheaves and two hydraulic power units.

The new system will be similar to the one we supplied for Exmar's Opti-Ex (which is now successfully operating for LLOG's "Who Dat" development) but significantly larger.

## Installations

A current installation project is heading to the Gulf of Mexico. In the photo to the right, Bardex employee Jeff Rainbolt is shown supervising the installation of one of our Chain Jacks on a platform that will work in the Jack & St. Malo field. At the beginning of the year Bardex shipped the set of Chain Jacks and now final installation is in progress.

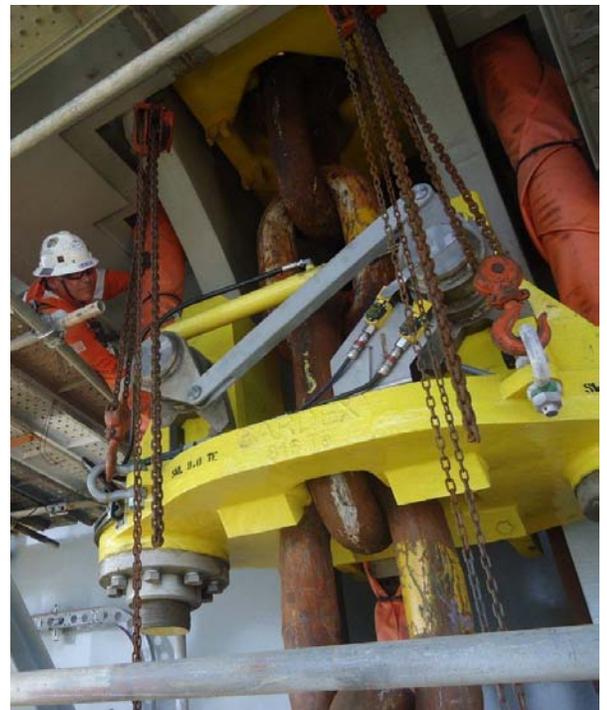
Designed to manage 165 mm chain and a pull capacity of 7,200kN, there will be sixteen chain jacks that pull in and secure the top chains that form part of the mooring lines that tether the platform to the ocean floor. A Bardex-designed 1400 H.P. (1044kW) HPU will deliver the hydraulic pressure to each of the chain jacks.

Just behind the chain jack is a Bardex turndown sheave that will guide the slack chain to the chain locker.

The PLC-controlled system allows the operator to pull-in or pay-out a specified number of chain links or length of chain and an HMI will provide a constant read-out of chain position and line tension whilst providing remote signals to the vessel central control system.

The mooring system allows the operators to actively move the semi-submersible between defined well locations and a neutral mooring position in case of a hurricane.

This particular Bardex mooring system is designed for a 30 year vessel life.



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