

Gripping News



*A regular quarterly newsletter
Informing and Entertaining !*

Issue 14, November 2010

The offshore oil and gas industry is moving into deeper waters to find the supplies of oil and gas that our world will need for its future prosperity. New frontiers in harsh weather conditions and environmentally sensitive regions are being explored in both Northern and Southern hemispheres of our world and our industry is developing new and safer ways of exploring and producing the world's hydrocarbon reserves.

Our industry is constantly changing and Bardex, as a global technology and market leader in our particular field of heavy load handling and positioning, is changing too. As well as the oil and gas industry, we are also working on projects in the renewable energy industry. We have a programme of constant product improvement and with our engineering expertise and experience we are developing new products to meet the challenges that the future holds.

2010 Exhibitions



For the first time, we will be attending OSEA in Singapore. At the start of 2010, Bardex appointed Offshoreology Pte. Ltd as our agent in Singapore and we will jointly be meeting customers during the show period.

New Orders:

Jack – St. Malo Field Development

In September we won a major chain jack mooring system order for Chevron's Semi-Submersible production unit to be moored in approximately 7,000 ft of water in the Walker Ridge area of the Gulf of Mexico to develop the adjacent Jack and St. Malo oil reservoirs.

Bardex will supply sixteen (16) Chain Jacks designed to pull in the 165 mm R4S studless mooring chain up to a stall load of 8,000 kN and integral chain stoppers to support the full MBL of the chain of 25,500 kN. The Chain Jacks will be fully instrumented and can be operated either manually or by pendent control coupled to a fully automated PLC-controlled system. Sixteen (16) turndown sheaves will handle the slack chain exiting each Chain Jack and redirect it to the chain lockers. The Chain Jacks will be powered by a Bardex designed Hydraulic Power Unit (HPU) comprising four (4) 350 hp electric motor/pump assemblies and 1,000 gallon reservoir with appropriately sized heat exchanger.

The photo at right was taken at this year's OTC and shows a model of the GVA design of the Jack - St. Malo semi-submersible with the Bardex exhibition Booth in the background.



Bardex Engineering Services:

Our company custom designs its products specifically to suit each application. This means that the customer will take delivery of a system that is fully optimised to function and perform exactly as the customer requires. Our Engineering Department, headed up by Vice President Tom Miller, is charged with all application and project engineering as well as our new product research and development.

Bardex has a long and distinguished history of innovation. Bardex industry "firsts" include the hydraulic gripper jack for skidding, linear chain jacks for mooring & tendon tensioning and for SCR pull-in, BarLatch™ Fairlead Stoppers, also sometimes known under a more generic name of "underwater chain stopper and fairlead", LeveLock gripper jacks (combining leveling with skidding in an integral unit), and so the list goes on. Where we lead, our competitors try to follow.



Tom Miller, at left, discussing design matters with senior engineers

Not often publicised is that our Engineering Department also carries out engineering studies on a consulting basis to those customers wishing to consider special solutions for handling and positioning of heavy loads. We perform conceptual design, design reviews, FEA, failure and fatigue analyses, 3D modelling, etc. By appointing our Engineering Department to carry out such studies, customers can take advantage of our innovative skills and our more than 45 years experience. Our engineers are fully qualified and all our work is carried out according to internationally recognised codes and standards such as API, AISC, ANSI, ASTM, ATEX, BSEN, DIN, Gosstandard of Russia, IEC, ISO and others. We are well used to, and welcome, working with classification societies and third party inspection bodies such as ABS, Baseefa, BV, DnV, Lloyds Register, USCG.

A recent engineering study was for analysis of an increase in chain size/higher grade chain on a linear chain jack mooring system for a production semi-submersible. Other contract examples include a custom design for a 1,500 tonne lifting system including swivelling load capability for installation or decommissioning of 12,000 tonne jackets and detailed engineering designs for a tendon installation porch, wellbay equipment handling system, etc.

We welcome new enquiries.

Editor: Stephen G. F. Jones (sjones@bardex.com)

For past issues of *Gripping News* please look under "news" on our website at www.bardex.com

For any information about Bardex, or if you have any comments you'd like to share with us, please contact us at one of these addresses:

Bardex Corporation,
8203 Willow Place Drive South,
Suite 560,
Houston,
Texas 77070,
Tel: +1-832-912-8300
Email: lreed@bardex.com

Bardex Corporation,
6338 Lindmar Drive,
Goleta,
California 93117,
USA
Tel: +1-805-964-7747
Email: alanglois@bardex.com

Bardex (UK) Ltd.,
5 Buckingham Place,
Bellfield Road,
High Wycombe,
Bucks, HP13 5HW
UK
Tel: +44-1494-464138
Email: sjones@bardex.com