

## 2009 Newsletter

### Into the groove.....



### Woodside, Pluto Jacket, Australia.

In amidst these uncertain times 2009 has provided us with good opportunities for growth and achievement. Our specialist drilling services support to Woodside's Pluto jacket installation was a great success: again testament to our promise to clients to deliver **"What we say, When we say, Safely"**. The bespoke LDD under-reaming tool was developed for Woodside for the installation of 144 No. 3.3m diameter *grooves* in the rock socket wall below 3.0m diameter caissons for drilled and grouted foundation piles. The under-reamer assemblies were supplied complete with LDD sub sea hydraulic actuation and monitoring systems for opening and closing of the units in-hole. Woodside's Resident Engineer and Project Coordinator comments:

*"We [Woodside] are very pleased with the experience applied to the design....and congratulate your design team for a first class design which has proved 100% reliable for the whole drilling campaign (all 144 in the hole actuations). [LDD Engineers] have been a tremendous asset to the drilling team and are a credit to your Company. We would also like to express our sincere thanks to Andy and his team ..... for their on-time manufacture of the tool and the professional approach to the FAT....We know who to contact for professional subsea expertise and experience"*.



### Drilling for GeoSea, Cameroon

LDD completed works for GeoSea providing specialist drilling/piling equipment and technicians for the Sonara Limbe Project, Cameroon. LDD works consisted of the drilling of 5 No. 2000mm rock sockets to target depth of 17m below mud-line in 80– 120 MPa basalt bedrock using LDD's 612 drill rig and in house design and built down hole equipment, working without any operational down-time in very arduous ground conditions.



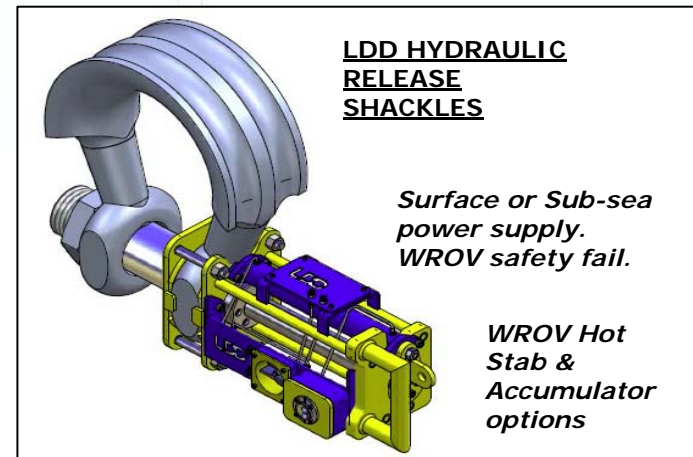
### Koniambo Project, New Caledonia

LDD were contracted by Smithbridge, Australia, to supply specialist drilling technicians for supervision of Smithbridge's pile drilling operations in New Caledonia. Pile drilling was required to form rock sockets as part of the piling works for a new wharf which in turn formed part of the development of a new terminal facility for the Hatch Technip lead Koniambo Nickel project.

### ExxonMobil PNG LNG

LDD recently secured a major contract award from Clough Curtain JV for supply of specialist piling services to support the extensive Esso Highlands (ExxonMobil) Papua New Guinea LNG Project. Starting on the Upstream Infrastructure Facilities, 2 No. Wharfs and several bridge crossings are to be constructed deep into the PNG Jungle. LDD work scope includes in house supply and operation of all drilling and piling equipment which includes: 3 No. pile-top drill rigs, 2 No. S90 Hydraulic impact hammers (through LDD sister company CIS) PTC vibratory hammers, compressors and pumps and extensive spares and repair package for operation in the extremely remote location. Specialist Project Management and Engineering supports the in field work scope. LDD is mobilising equipment right away and programmed to commence operations in PNG in February 2010.

### New Services and Products



#### LDD HYDRAULIC RELEASE SHACKLES

*Surface or Sub-sea  
power supply.  
WROV safety fail.*

*WROV Hot  
Stab &  
Accumulator  
options*

During 2009, LDD has further developed its Lifting & Handling Product Range which now covers:

- Hydraulic release shackles.
  - Internal, external and pinned lift tools (ILT, ELT & PLT), opening tools, pneumatic sealing units for floating and lifting piles (to 6m dia), lift and spreader beams. All with surface and deep sub sea options.
  - StabFRAME sub-sea pile support frames
  - StabLIFT marine lifting heave compensators
  - StabLATCH remote latching for pile to crane connection
  - Piling gate systems for construction vessels/jack ups of all types
  - Bespoke lifting & handling systems
- LDD's range of Specialist Offshore Lifting & Handling Tools and Systems can be provided as part of LDD Total Installation Services (TIS) or as stand alone rental or purchase.

For more information, please refer to our website or make an enquiry through the contacts below:

#### Contact for further information:

**Jason Clark - Managing Director**  
jason.clark@liddrill.com

**James McGovan - Technical Sales Manager**  
james.mcgovan@liddrill.com

**Tel: +44 (0)1209 861 930**  
**E: info@liddrill.com**  
**W: www.liddrill.com**