

## Challenging convention

Article supplied by Paul Howlett, Managing Director, Caledus Limited

Caledus Limited was formed in February 2003, as a service sector supplier to provide drilling, completions and well services to the upstream oil and gas industry. Staff levels have boomed from 3 to 15 since January 04, with at least three more additions this year. One of the most exciting parts of the Caledus business is the development and commercialisation of an evolutionary well construction system called "SlimWELL™". A full system test will occur this year, with commercial field trials planned early in 2005. In the Caledus products portfolio exist a number of performance, operational and safety enhancing products that have synergy with SlimWELL™.

Slimming down the oil and gas well geometry to reduce the cost of well construction has been an economic goal of operators for

many years. To achieve the desired size of pipe across the zone of interest but slimming down the rest of the well construction geometry to get there, and still enabling the desired size and configuration of the completion to be installed are the main objectives and challenges to those operators. Today, whilst the desire and need exists no practical system has been made commercially available to achieve these goals.

SlimWELL™ utilises a system of running tight tolerance, close clearance flush outer diameter pipes with-in each other, securing them with novel deployment, sealing and supporting means, and the ability to install them while over-coming the inherent technical difficulties in doing so.

The goal is to produce a practical set of solutions to SlimWELL™ well construction methods that significantly reduce well costs,

stimulate exploration and appraisal activity, increase project developments, reduce operational risks, improve safety, and reduce the impact on the environment.

"This system has the potential to stimulate exploration and appraisal activity if it can truly reduce construction costs by so much, very interesting" – Exploration and Development Manager, North Sea

"We are one of the largest independent operators in the North Sea. It is access to technology like this that can help us improve performance and improve our ranking, I'll set up a session with some of my engineers for you" – Performance Improvement Manager

"This could achieve many of the objectives of an expandable casing construction without the associated risks of expandables" – Drilling Manager, for North Sea Platform ■



**FloMASTER™ DP/CS** is a simple drill-pipe, casing or tubing conveyed tool designed to control U-tubing/free-fall during the pumping and displacement of cementing operations. Enhances control and placement to improve cement job quality.



The Caledus **BridgeBUSTER®** is an enhanced design of reaming guide shoe designed specifically to cost-effectively overcome a number of problematic wellbore conditions when running liners or casing strings.

### Overcome problems associated with:

- Bridging
- Sloughing & Swelling
- Ledging & Washouts
- Cuttings beds
- Mobile formations
- Wellbore tortuosity



The **RotoTEC®** range of non-rotating drill pipe/casing wear protectors have been proven to significantly reduce costs in challenging wells worldwide.

### Reduce:

- Surface Torque
- Drag
- Casing/Drill Pipe Wear
- Costs

### Increase:

- Drilling Rates

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For more information on these and other portfolio products, visit [www.caledus.com](http://www.caledus.com)

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CavoMOTOR™ SR  
ScorpionTONG™