

Creative  
Well Intervention Solutions

a vision

Enhanced  
Performance  
Kickover Tool  
an advanced gas lift solution



## Creative Well Intervention Solutions

Wireline Engineering serves its upstream oil & gas customers by developing innovative wireline and flow control products that add tangible value to their well intervention activities. We are committed to the success of all our Customers, by finding smarter, easier and better ways to meet their operational and business goals. Wireline Engineering combines operational experience, creative design, state of the art manufacturing and product testing facilities to generate smart products and fast-track solutions, worldwide.

# Enhanced Performance Kickover Tool an advanced gas lift solution

The efficient running and retrieval of gas lift valves is a common challenge for many well service professionals. Awkward mandrel orientation or significant wellbore deviation can make it difficult to rotate and align kickover tools and can lead to frequent misruns, with consequential loss of time and money.

To meet this challenge and greatly increase the number operations that achieve first time success, Wireline Engineering has developed an Enhanced Performance Kickover Tool that is adaptable for use with most types of gas lift mandrels and valves.

Key features include 360° roller subs top and bottom that lift the tool to remove the contact friction that inhibits access in deeper and more deviated wells. Critically, the rollers are mounted on high-efficiency swivels that allow smooth orientation within the gas lift mandrel, irrespective of well deviation, and make it significantly easier to locate the trigger every time. What emerges is a kickover tool that is significantly more reliable and tolerant of downhole conditions.

The tool also includes a more rigid and radially balanced tray that adjusts the centre of gravity of the tool and minimises weight bias. This contributes to easier manipulation downhole and reduces the line pull required to orientate and function the tool.

An integral valve catcher removes the need for additional wireline runs to set and retrieve a separate valve catcher, saving time and removing the risk of an unnecessary operation.

**The Enhanced Performance Kickover Tool allows gas lift mandrels to be positioned deeper and at higher wellbore deviations than previously thought possible, allowing greater flexibility when planning completions and conducting well servicing operations.**

The radially balanced tray with improved rigidity prevents weight bias and reduces line pull required to orientate the tool downhole

Swivelling  
Roller Sub

Integral  
Valve  
Catcher

Swivelling Roller Sub  
minimises contact friction  
to improve wellbore access  
and make orientation  
smoother and easier

## Case History

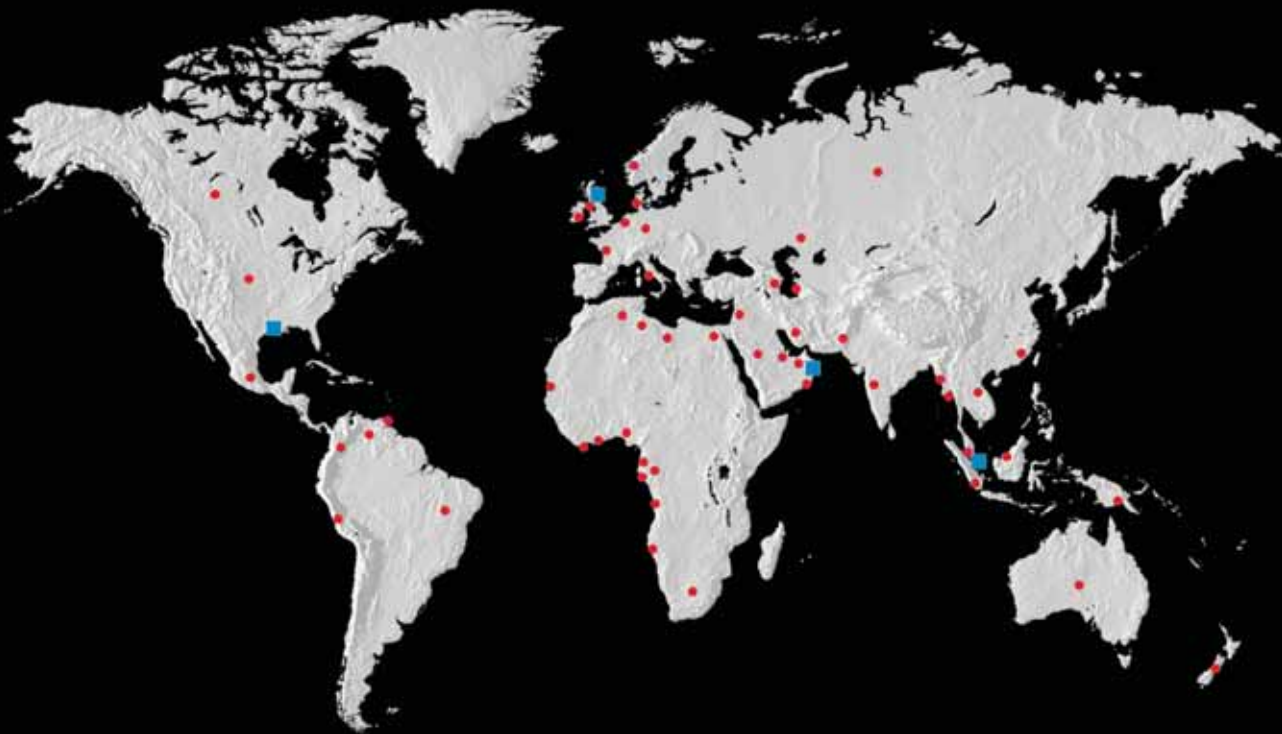
Wireline Engineering Roller Bogies,  
Low Loaders & Enhanced Kickover Tools

A customer in Southeast Asia has a number of production wells equipped with gas lift mandrels, some of which are set in wells at depths over 9,000 ft and deviations greater than 70 degrees. Wireline intervention operations to service these mandrels had always been problematic and sometimes simply impossible. One well in particular, where the mandrel is set at 77 degrees and where several previous attempts had failed to locate and change out a valve was selected to try the Enhanced Kickover Tool, which was run in conjunction with Wireline Engineering's Roller Bogie wireline conveyance tools. This combination of tools was successful immediately and the valve was changed out first time with no misruns.\*

Further tests followed in some of this customer's most difficult and tortuous wells, which resulted in similar success stories. This customer has since gone on to include Wireline Engineering's Low Loader Jar for this same operation. This combination of all three tools has proved to be the optimum toolstring and has now become standard practice to run these tools in all gas lift operations.

\*specific details of these operations may be made available upon request.

**wireline**   
engineering



WELLBOSS™ and Roller Bogie™ are trademarks of Wireline Engineering Ltd and must not be used without the express written permission of Wireline Engineering Ltd.

Roller Bogie™ is protected by granted and pending patents worldwide.

Copyright October 2008. All rights reserved.  
No parts of this publication may be reproduced or distributed in any form or by any means, or stored in a data base or retrieval system, without the prior written permission of Wireline Engineering Limited.

- Countries where Wireline Engineering products are in operation
- Wireline Engineering offices

#### Europe

Wireline Engineering limited  
Technology House  
Blackburn Business Park  
Blackburn, Aberdeen AB21 0PS  
United Kingdom  
T +44 (0) 1224 798000  
F +44 (0) 1224 791410  
E [info@wireline-engineering.com](mailto:info@wireline-engineering.com)  
[www.wireline-engineering.com](http://www.wireline-engineering.com)

#### Far East

Wireline Engineering limited  
3 Elitis Tiara Selatan  
Valencia  
Sunghai Buloh  
Selangor 47000  
Malaysia  
T +60 (0) 3 6141 8708  
F +60 (0) 3 6141 8708  
E [info@wireline-engineering.com](mailto:info@wireline-engineering.com)  
[www.wireline-engineering.com](http://www.wireline-engineering.com)

#### Americas

Wireline International LLC  
1406 West Pinhook Road  
Lafayette  
Louisiana 70503  
United States of America  
T +1 (337) 267 7888  
F +1 (337) 267 7476  
E [info@wireline-international.com](mailto:info@wireline-international.com)  
[www.wireline-international.com](http://www.wireline-international.com)

#### Middle East

Wireline Engineering limited  
PO Box 45072  
Abu Dhabi  
United Arab Emirates

T +971 (0) 2 639 2273  
F +971 (0) 2 631 2325  
E [info@wireline-engineering.com](mailto:info@wireline-engineering.com)  
[www.wireline-engineering.com](http://www.wireline-engineering.com)

