

Creative  
Well Intervention Solutions

a vision

Safety Valve  
Maintenance  
an advanced  
intervention 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.

## Safety Valve Maintenance an advanced intervention solution

Tubing Retrievable Safety valves are both expensive and safety-critical devices. Knowing that they are in good working order and functioning properly is therefore of enormous value, both in terms of managing cost and mitigating risk. With this in mind, Wireline Engineering has designed a family of innovative tools to monitor the function and extend the working life of this important equipment, without the need to pull the completion.

For more information on these or other Wireline Engineering products, please contact your nearest sales office.

The Flapper Investigation Tool (FIT) is used to confirm proper function of the flapper before running intervention tools through a tubing retrievable safety valve. If the flapper is only partially open, there is a risk of parting wireline and losing the toolstring when equipment is retrieved back through the safety valve. This risk can be effectively managed by using the FIT to confirm the flapper is fully open before running wireline in the well.

### Flapper Investigation Tool

When the movement of the flow tube in a downhole safety valve is impeded due to a build up of scale or debris, the Exercising Tool is designed to grip and mechanically manipulate the flow tube in an effort to free it and return the valve to full functionality.

The Exercising Tool is available in two forms, designed to move the flow tube either upwards or downwards. When positioned in the safety valve, these tools use special full-radial-contact slips to engage and hold the flow tube before imparting mechanical forces to overcome whatever is restricting movement, without damaging the flow tube itself.

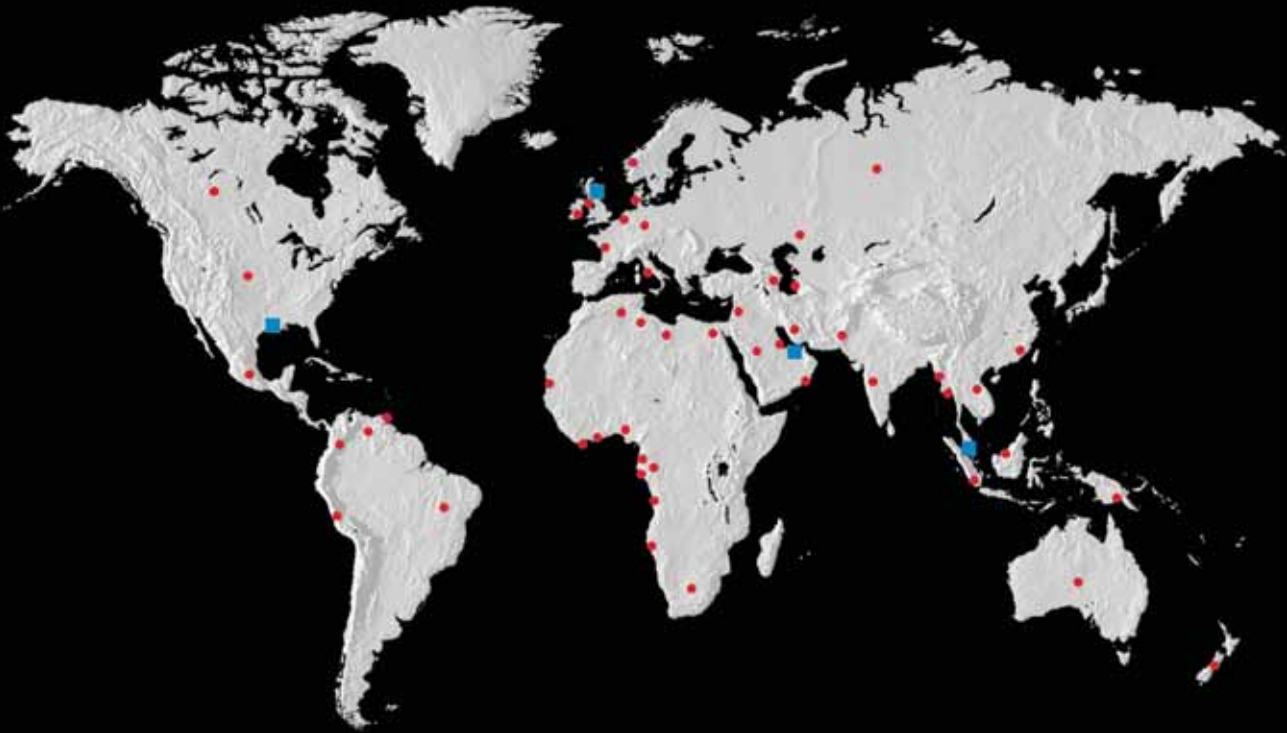
### Exercising Tool

Downwards

Upwards

### Chemical Jetting Tool

The Chemical Jetting Tool is used to convey and deploy chemicals to remove scale or wax from completion tools such as safety valves. The tool is run on wireline and can be positioned to deliver appropriate chemicals directly on to critical surfaces, using applied tubing pressure to achieve an effective jetting action



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