

## FIV Formation Isolation Valve Local Inventory Ensures That Client Achieves Schedule Goals

Case study: Met completion requirements on short notice in North Sea UK sector wells

### Challenge

Protect lower completions without incurring completion delays, and meet the design requirement for a tubing barrier.

### Solution

Install FIV\* formation isolation valve, which was available immediately from local stock.

### Results

Isolated lower completions for installation on schedule and to meet regulatory requirements.

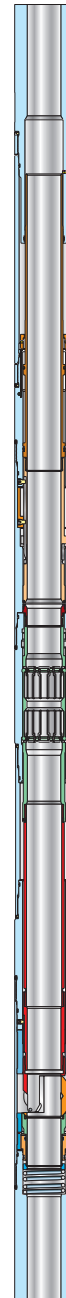
### Lower completion requires fast, reliable isolation

A Canadian oil and gas company operates in the upstream and downstream sectors of the industry in Canada and elsewhere. One field's wells in the North Sea UK sector contained three packers and intermediate strings with expandable sand screens, which made isolating the lower completions during installation extremely challenging. The operator needed to isolate the completion efficiently and on schedule and to meet strict regulatory requirements regarding the completion design plan.

After encountering supply and operational problems with third-party vendors, the operator contacted Schlumberger to discuss the availability and use of the FIV valve.

### FIV valves provide needed protection

Schlumberger had developed the FIV isolation valve technology to provide a two-way barrier for protecting costly gravel-pack and frac-pack operations from completion fluid damage. The technology is designed for use in deepwater and high-pressure, high-temperature applications, gravel-pack operations, horizontal wells, and underbalanced conditions. Thus, it met the stringent requirements for use in these North Sea wells. In addition, Schlumberger maintained inventories of these valves at local facilities, simplifying supply on a call-out basis.



FIV formation isolation valve.

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## **FIV valves available locally provide supply, operational, and regulatory solutions**

Having speculative FIV isolation valves in stock locally and installation personnel available on short notice allowed Schlumberger to react quickly to the operator's request to install FIV valves. Installation time was approximately the same as that required for other types of isolation valves, but the immediate availability of the FIV valves and their successful performance helped quickly resolve its supply challenge and meet its operational goals.

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