



Location: North Sea
Customer: Major International Oil Company
Well Type: Gas Producer (66 degree deviation)

Products/Services:
Fishing Package. High Temperature / High Strength Magnet, Releasable Overshot, Releasable Spear

Case Study Fishing

Recovery of Safety Valve Lockout Tool

The Challenge

The safety valve lockout tool had parted downhole in the safety valve at 534-ft well depth. Video footage established that the 'bean can' mechanism (part of the safety valve lockout tool which keeps the flapper permanently in open position) had successfully locked out the downhole safety valve (DHSV). The sub-assembly housing on the bean can had fallen and was expected to be sitting in the 3.688-in nipple at 8155 ft.

Considerations

It was identified that the actuation dog of the lockout tool might hinder the retrieval of the housing by sitting across the top of the fish, thus preventing retrieval with a spear.



1st

High performance tools enabled successful fishing on first attempt



Rapid response and prompt mobilization of fishing tools

Peak's Solution

In response to the situation, Peak worked in close collaboration with the operator, providing technical support and discussing all the fishing options. Peak provided layout drawings for various overshots and spears, operational procedures, rapid manufacture and delivery of the fishing tools to Great Yarmouth.

For one contingency, a gauge cutter was heavily modified to act as a sweeping tool for the actuation dog. In the event that it was needed, the gauge cutter would be rotated around the top of the sub assembly by an indexing tool and would push the actuation dog back into the sub assembly. A High Temperature/High Strength Magnet was supplied for retrieval of the actuation dog and a 2.720-in Releasable Spear for retrieval of the sub assembly.

The High Temperature/High Strength Magnet picked up the actuation dog and the Releasable Overshot speared the inner spring mandrel on the first attempt and pulled the fish to surface.



▲ High Temperature / High Strength Magnet

Value to Customer

The operator was delighted with the successful outcome.

- Highly effective team work - In response to the situation, Peak worked in close collaboration with the operator, providing technical support and discussing all the fishing options
- Rapid Response – Prompt mobilization of fishing tools to Great Yarmouth
- Reduced NPT – Expertise and high performance tools enabled successful fishing on the first attempt; production can resume much quicker



▲ Releasable Spear

Product Code(s): Releasable Overshot – 230

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