

TruEdge* Technology Delivers Outstanding Results in a Subsea Abandonment Application

Use of TruEdge technology reduced rig time and cost in a Subsea wellhead cutting and retrieval operation in the North Sea.

CHALLENGE

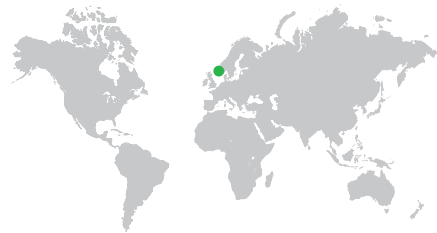
- Improve efficiency in Subsea Wellhead Abandonment operations.
- Ensure execution of the operation in a single trip.

SOLUTION

- A knife design, that incorporated TruEdge technology was developed for the WIS Heavy Duty Pipe Cutter to improve cutting efficiency.
- A parameter roadmap and an optimized BHA design was established specifically for the operation.

RESULTS

- The 20 in. x 35 in. conductor/ casing was successfully cut and the MS700 Wellhead retrieved in 1 trip
- A total of 2 hours and 45 minutes of cutting time was significantly faster than offset well comparisons.
- The TruEdge cutting structure was examined and exhibited good wear characteristics and no indications of abnormal damage.



Wellbore Integrity Solutions (WIS) successfully deployed a new casing cutting knife design – incorporating TruEdge insert technology.

While planning a Subsea Well Abandonment, WIS developed a new casing cutting knife for the WIS Heavy Duty Pipe Cutter, that incorporated the recently commercialized TruEdge technology, specifically developed for both improved casing cutting and milling applications.

The design and manufacturing process was expedited to meet the timeline for the operation with close collaboration between WIS Engineering, local WIS operations and the customer.

Specifications:

- MS700 Subsea Wellhead System
- Dual Casing Cut, 35 inch and 20 inch

The job planning process also included revised operational parameters for the new TruEdge technology and an optimized BHA design.

The casings were successfully cut and the wellhead retrieved in a single trip. The cutting time of 2 hours 45 minutes was significantly faster than direct offset wells.



WIS Heavy Duty Pipe Cutter with TruEdge cutting knives.



The 20 inch x 35 inch Cut Casings