

# Complex Fishing Operation in Malaysia

Wellbore Integrity Solutions' (WIS) Red Baron team successfully retrieved a complex fish left in the hole by providing creative solutions for Hibiscus Malaysia.

## Strategic operational planning and execution delivers success for Hibiscus Malaysia.

In Malaysia, the local WIS team accomplished a demanding workover operation for their customer, Hibiscus Malaysia. The operation required access to the well, which was shut in due to multiple fish left in the hole. The work involved retrieving 14,596.1ft of cables, REDA Coil, and an Electrical Submersible Pump (ESP).

To complete this fishing operation, the WIS team prepared several innovative solutions, and various fishing bottom hole assemblies (BHAs) were customized during the planning and execution stages.

### Execution phase:

- During the initial stage of fishing, the 11¾ inch internal rope spears were modified with various configurations to begin recovery of the cable.
- WIS' experienced fishing team ensured a rapid response, with constant feedback from the rig team, to improve operational efficiency by modifying the tools and deploying to locations on short notice.
- Multiple configurations and customizations of standard fishing tools, such as a 13¾ inch crankshaft, 9⅝ inch rope spear, 8⅛ inch overshot, and washover shoes, were made.
- A total of 63 runs with 26 BHA configurations were required to achieve the objective of the fishing operation successfully.



Crank Shaft Rope Spear

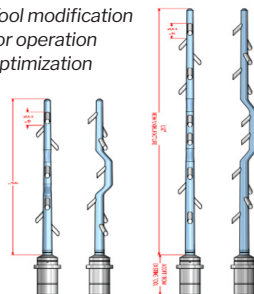


Continuous Cut Overshot (CCO) to Retrieve Coil Tubing



Creative BHA Overshot with Hollow Mill C/W 5¾ inch Grapple

Tool modification for operation optimization



### CHALLENGE

- Access to the well was restricted due to parted coil tubing and cables for the ESP around 6,000 ft depth.
- The challenge was to gain access by performing complex fishing operations involving recovery of various type of cables (bird nested), eroded Coil Tubing and ESP.

### SOLUTION

The WIS team in Malaysia evaluated and proposed the solution by splitting the fishing operation into to three separate stages:

- Stage one was to recover all the cables.
- Stage two was recover Coil Tubing.
- Stage three was recover the ESP.

Various fishing equipment were customized to efficiently perform the fishing operation, such as the crank shaft, internal rope spear, overshot and basket grapple. Numerous BHAs were designed utilizing the extensive operational experience of the local WIS team.

### RESULTS

- Successful retrieval of fishing operation was performed as per customer requirements.
- The armored cable and flatpack cable, totaling approximately 12,216 ft cable length, was recovered with various modified rope spear fishing equipment.
- Similarly customized fishing equipment was used to retrieve 2,255 ft of 2¾ inch REDA coil.
- The 125.1 ft of ESP was then retrieved.
- Total overall length of the fish recovered was 14,596.1ft (Cables, REDA Coil and ESP).



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