

Peak eCutter Facilitates Faster Stuck Toolstring Recovery in Long-Reach, Highly-Deviated Well

Peak eCutter and Pump Down Go-Devil avoid costly fishing job and keep drilling on schedule

Peak Wells Systems cuts wire at the cable head on first run using Peak eCutter* electronically activated nonexplosive wireline cutter with Pump Down Go-Devil time delay cutter assembly.

The operator's concerns

A third party 0.125-in slickline toolstring was stuck at 2,900 m [9,514 ft] MD in an operator's deviated well. The slickline wire had to be removed before fishing for the toolstring. The situation in the well was challenging, with a 50° deviation and tight clearance with 2.992-in-ID open-ended tubing having several 2.75-in-ID nipples.

What the operator tried first

Repeated attempts to overpull the toolstring did not free the toolstring. The operator determined that none of the slickline operator's cutting tools were likely to pass through the nipple profiles and reach the top of the fish.

What was recommended

To avoid a lengthy and more costly fishing job, Peak Well Systems recommended cutting the wireline as close as possible to the stuck toolstring. The nonexplosive technology included the 2.2-in Peak eCutter with 1.875-in Pump Down Go-Devil (PDGD) drop bar deployment.

The Peak eCutter was developed for long reach wells with large deviations, incorporating an electronic trigger with preset timer to prevent being activated by the fish, fluid, or with debris. The Pump Down Go-Devil is fitted with swab cups. It drives the cutter to the desired hold-up depth based on the pump pressure acting on the swab cups.

What happened

The Peak eCutter was prepared with a 6-h delay and deployed. An hour later, the PDGD was deployed and joined up with the eCutter. A timed clean cut was made on the wire within inches of the toolstring on the first run in the hole. This enabled all cable in hole plus the Peak eCutter and PDGD to be recovered to the surface. With the cut made as close as possible to the top of the fish, the operator was subsequently able to latch onto and retrieve the fish with braided slickline, eventually finishing well completion.



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