

SUCCESSFUL MEMORY RADIAL CUTTING TORCH OPERATION TO SEVERE STUCK COILED TUBING IN ASIA BY DAYA MAXFLO SDN BHD

One of key Oil & Gas operators in Asia conducted an offshore coiled tubing operation to mill cement through out perforation zone. The operator deployed 1 3/4" tapered coiled tubing which became stuck at 3386m. After multiple attempts to free the coiled, which was unsuccessful, the operator moved quickly to mobilize the **MCR Radial Cutting Torch (RCT)** offshore.

Series of operational meetings was conducted in town with with all relevant 3rd parties to ensure a successful operation, since this was the first time for the operator facing this.

The coiled tubing had to be cut on surface to allow a slickline pressure control system, to be rigged up on top of coiled tubing as a well barrier during slickline RCT operation.

Prior to RCT deployment, the coiled had been dried out with nitrogen to achive a single cut operation and to ensure the success of cutting operation with RCT.

A data run using the **Remote Firing Mechanism (RFM)** was deployed to collect well parameters as well as acting as a drift to ensure the target cut depth was achievable.

Following the data run, the activation of RCT was achieved by programming the RFM accordingly to allow a downhole activation.

As a result, the coiled tubing was sucessfully cut by 7/8" RCT safely at depth of 310m. It produced a clean and non flared cut. The success of this operation enabled the operator to secure the well and move forward to next operation.



Challenges

- 1 3/4 inch Coiled Tubing Stuck at 3340m
- S shape well trajectory
- Well on losses
- Eliminate drop ball option
- Restricted Rig Up Heights

Solutions

- Use slickline Remote Firing Mechanism as memory trigger and RCT Deployment
- Single Successful run of 7/8" RCT
- Cut in dry pipe and annulus
- Clean and non flared

