

## Tubing Cut Case Histories

**Date:** Feb 2004

**Job Objective:**

Cut 3-1/2" Tubing using Cut and Pull assembly run on tapered drillpipe workstring at 4,053 meters.

Operation Performed using 2-5/8" Dia Welltonic Hydraulic Tubing Cutter with 2-3/8" Drilex Motor.

**Job Outcome:**

Tubing cut successfully in one trip . job performed exactly as per programme and job design and cut took less than 10 mins pumping at 130 Liters / min.

**Date:** June 2003

**Job Objective:**

To firstly clean out clay and formation deposits from inside 2-7/8" Production Tubing, where a wireline plug had also failed to set in the lower 2.313" nipple profile. Secondly it was required to perform a hydro-mechanical tubing cut as deep in the well as possible in order to facilitate well kill operations and recovery of the production string. It should be noted that the work was performed using 1-1/2" OD coiled tubing and that it was a high-pressure gas producing well (7,500 psi).

**Job Outcome:**

During the cleanout phase of the operation it became apparent that the plug was not set in the lower nipple as the well kicked in and there was 6,500 psi at surface. The cleanout was performed using Zinc Bromide for well control purposes, with a minimum of formation solids entering the production tubing. For the tubing cut centralization and anchoring of the assembly were paramount and the assembly was designed with these critical features in mind. On the first attempt there were no indications of the cut being made, even though a cut was achieved in less than 3 minutes at surface. On the second attempt however the tubing was cut successfully, albeit in a longer time than expected. This could have been down to debris in the well, and in fact the cut may have been successful at the first attempt with packed debris in the annulus preventing the tubing from being pulled free. The operation was a major success in particularly challenging conditions and met with all the client's objectives.