MCT and EMT Combo for Casing Damage Evaluating

Basic Data

Client:
Changqing Business Unit of CPL, CNPC

Date:
09/04/2016

Location:
Dingbian, the North of Shaanxi

Depth of Interval:
42.36m - 1250.86m

Casing OD:
139.7mm

Casing ID:
124.26mm

Casing Wall Thickness:
7.72mm

Result

A logging job is run by a tool string made up of 40-finger caliper and electro-magnetic damage detection tools. The interval 979.79-1250.86m is found damaged, the interval between 1120-1235m is a perforated interval. The interpretation for the logging data from software indicates that there are 3 holes in the wells, and the most serious damages occur in the casing interval 1222.6-1233.4.

Performance

The client approves the result.

The data from the logging can provide a useful reference for detecting the degree of corrosion to casing and further intervention.
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Casing damage in the interval 1050 – 1125m

Corroded casing quantity vs different damage type from the MCT logging is shown in columns.

A summary table from the EMT logging shows casing damage at different depths.

A summary table from the EMT logging shows the degree of corrosion to casings.