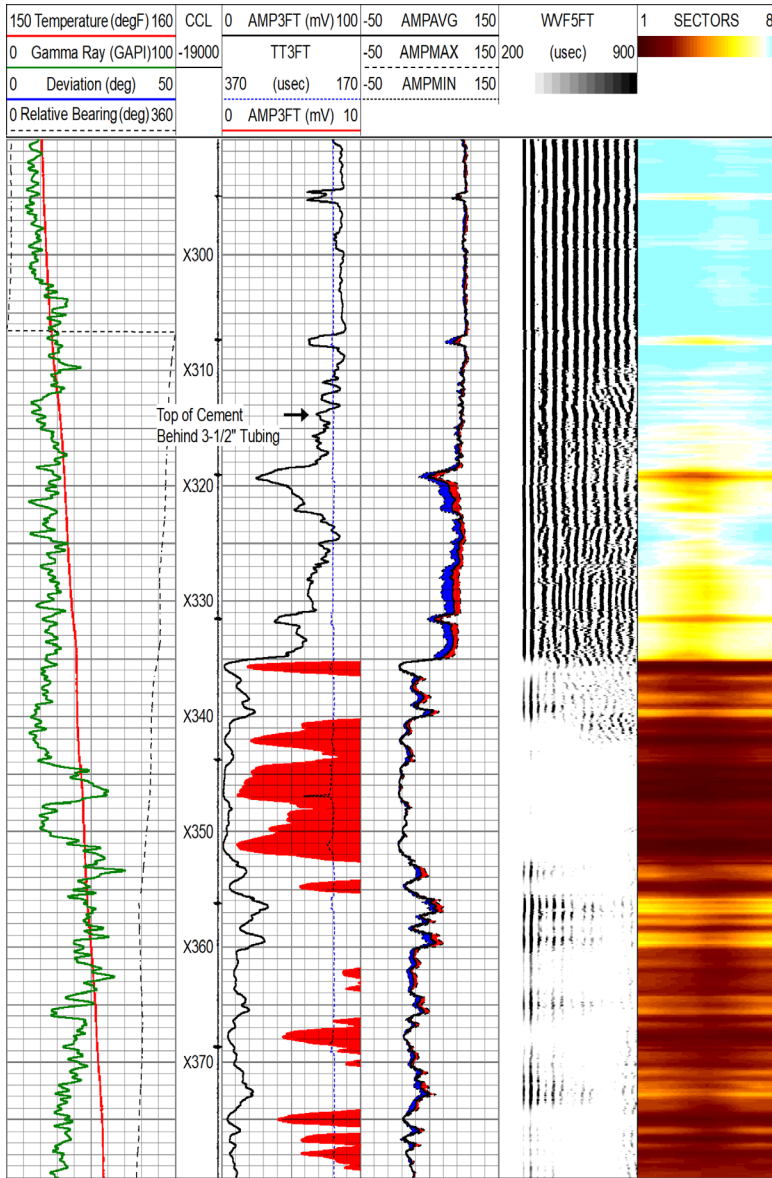


Memory Radial Bond Log improves cement evaluation data with reduced logistics



The Challenge

An operator in Indonesia manages a field with primarily 3½-inch monobore completions, where they evaluate the cement quality behind this small diameter pipe. For a more complete analysis, they require a variable density log (VDL) and a cement map around the pipe. Their available 1¹¹/₁₆ -in. cement bond tool however, presented some challenges to their objectives as:

- It provides a VDL but no cement map
- An E-line unit is needed because the tool only supports surface readout
- The platform was too small to easily accommodate an E-line unit for the log

The Solution

The customer's logging services provider recommended the GOWell Radial Bond Log (RBL) tool for these logs as it provides the needed VDL and cement map, and it can be run in memory mode.

The 2.75-in. diameter of the tool did present some concerns for passage through the small diameter completions. Risk mitigation was discussed however, and all parties agreed to a 2.85-in. gauge cutter run prior to the RBL cement log.

The Results

- The RBL tool was quickly mobilized to the platform on short notice.
- The maximum diameter for the full logging string was measured and confirmed to be 2.75-in. or less.
- The 2.85-in. gauge cutter was run in and out of the well without any issues.
- The RBL string did not exhibit any sticking or dragging issues when run in the well.
- With this smooth performance and reduced logistics, the RBL was run consecutively in five wells, providing reliable cement logs on all of them. The customer highlighted that the RBL logs looked better than those obtained from a smaller, 1¹¹/₁₆ -in. tool that was previously run in their wells.

