

LOGIQ™ Logging Platform

The LOGIQ™ system – Halliburton’s next-generation platform for openhole and cased-hole wireline logging services – is completely new technology that encompasses state-of-the-art downhole logging tools, a higher data rate telemetry system and the more powerful PC-based LOGIQ surface system.

The benefit most readily recognized by customers is the dramatic reduction in the length of the downhole tools without any penalty in temperature or pressure rating specifications. In the most common configuration, the “quad combo,” tool length is reduced by more than 50 feet. Time spent drilling “rathole” to permit evaluation of pay zones near the bottom of the well is also significantly reduced. In addition, shorter logging tool strings have a lower potential to become stuck. As operators know, there are few rig activities more destructive to a well’s economic value than time spent fishing logging tools.

Product suite includes the LOGIQ logging platform and LOGIQ downhole tools.

LOGIQ OH/CH Surface System

The LOGIQ surface system is configured to run all openhole (DITS™, INSITE®, RDT™, MRIL®) and cased-hole services.

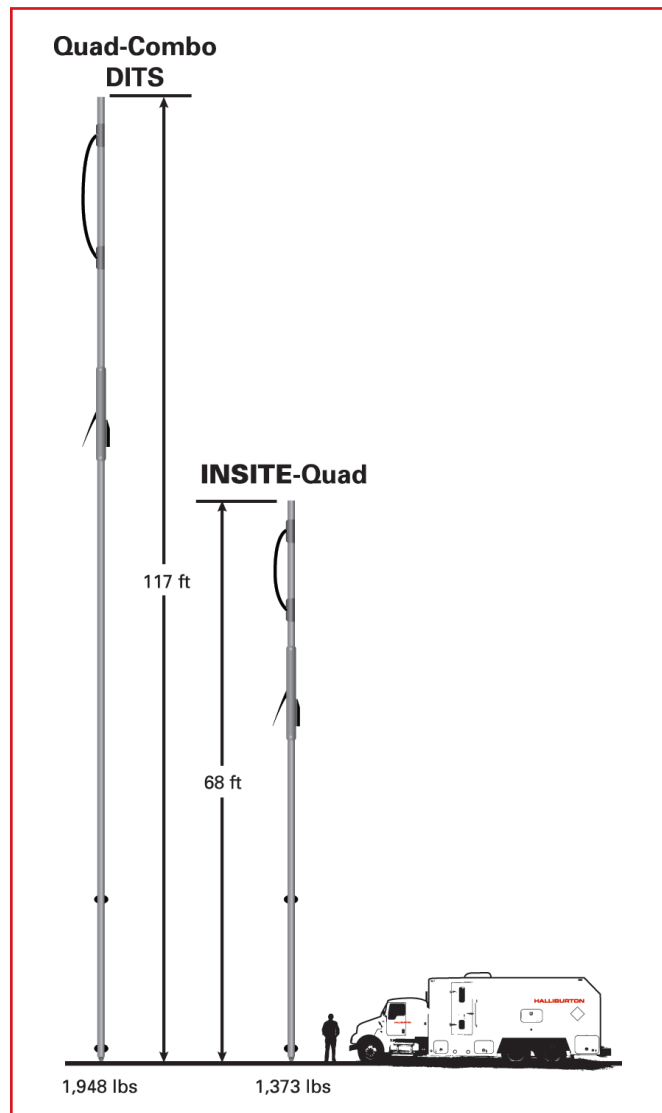
The new, faster PC-based system addresses the obsolescence of the EXCEL® 2000 surface system. Office environment and dual display are configured for improved workflow, and boast a power scheme that allows the delivery of 200W instrument and 1,800W auxiliary power.

Based on an MS WINDOWS® operating system, the LOGIQ surface system is designed to run CLASS, INSITE and logging software.

Case History

An independent operator in the East Texas area was drilling a development well in the Cotton Valley formation with a planned TD of 12,000 feet. The logging program called for a quad combo, but, since there would be several depleted zones open at the time of logging, the operator was concerned about the potential for differential sticking. The Cotton Valley formation is notoriously hard and drilling rates of 300 feet per day were expected.

Ordinarily, the risk of sticking may have called for making two trips in the hole to collect the quad combo data. With the advantage of greatly reduced tool length, it was decided to attempt the logging program in one trip with the LOGIQ quad combo.



LOGIQ™ INSITE – Quad has a shorter tool string length and faster data transmission compared to the Quad – Combo DITS™.

The hole was logged successfully and, while there were significant pulls observed while logging, the tools never became stuck.

By accomplishing the logging in one pass instead of in two, the operator estimates that we saved him about five hours of rig time. The reduction in rathole drilling required to log the bottommost sand was deemed to have saved another four hours. The total net savings to the customer was nine hours, or about \$7,500.