

Toolpusher™ Logging (TPL) Service

Today's search for oil and gas is heavily influenced by the rapid growth of technology. New tools and equipment are being built, new production and recovery methods are being tested, and new exploration techniques are being developed. Drilling programs are becoming increasingly complex and many wells now commonly include highly deviated or horizontal sections. In these cases, obtaining quality formation evaluation data with conventional wireline methods may be impossible or impractical at best—severely restricting the options available to the operator.

The Toolpusher™ logging (TPL) service provides an innovative solution to this significant problem. TPL service utilizes drillpipe to effectively transport conventional electric wireline logging tools to the zone of interest. This method eliminates many of the problems associated with conveying tools through highly deviated or horizontal sections of the well. It also helps eliminate problems caused by:

- Wireline key seating
- Differential sticking of tools or wireline
- Swelling formations

- Heavy muds
- Doglegs
- Cuttings bridging off the wellbore

The TPL service has successfully logged thousands of highly deviated and horizontal wells, including:

- Wells with temperatures over 400°F (204°C)
- Depths exceeding 24,000 ft (7315 m)
- Logged intervals over 10,000 ft (3048 m)

The Toolpusher latch assembly has been deployed and latched at angles of up to 97° with a maximum logged angle of over 104°. Average job time at 12,000 ft is 16 to 18 hours.

Toolpusher service is designed to run both standard and modified wireline logging tools. The quick change, attached to the top of the logging toolstring, is attached to the bottom of a connector sub. Then the connector sub is attached to the drillpipe. The connector sub, available in three diameters, has slots cut through it so circulation can be accomplished at any time during a logging operation.



Toolpusher™ Drillpipe Conveyed Logging System