

CASE HISTORY

RESERVOIR PERFORMANCE AND TUBULAR EVALUATION IN ONE RUN

APPLICATION

Cased Hole Services

TECHNOLOGY

Well Integrity

+ Vulcan™ MFT-24

Flow Logging

+ Vulcan™ FLS 1.75

LOCATION

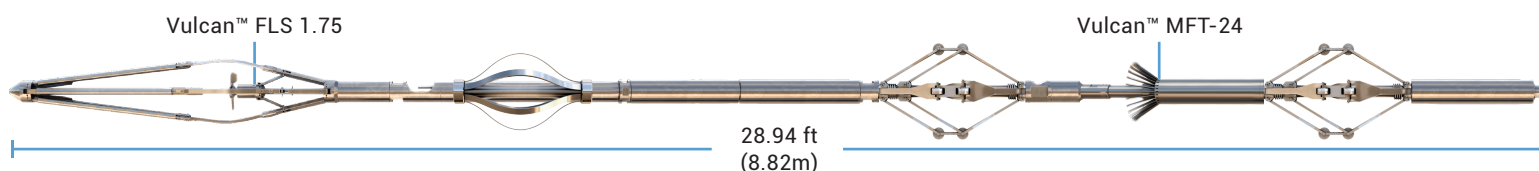
North Sea

CLIENT CHALLENGE

An Operator of a HPHT field in the North Sea sought to reduce the number of well interventions for a one-well data acquisition campaign and minimize non-productive time (NPT). However, a downhole temperature of 175°C imposed limitations on the range of available technologies for the application of production logging tool (PLT) data and the evaluation of tubulars of multiple sizes.

SCIENTIFIC SOLUTION

Scientific Drilling International's (SDI) combined Vulcan™ MFT-24 and Vulcan™ FLS 1.75 (gamma-ray, casing collar locator, pressure, temperature, and spinner) provided a uniquely suitable tool-string configuration to meet the Operator's data acquisition objectives. The first part of the well intervention comprised PLT passes across the perforated interval, followed by the collection of high-resolution, high-sample rate (0.01 sec) multi-finger caliper data on the way out of hole in three different sizes of tubulars. Both tools collected high-quality data.



CLIENT VALUE

The caliper and PLT data acquisition were conducted in memory mode enabling the lower cost, lower risk choice of slickline conveyance. Combining the caliper with the PLT allowed the Operator to eliminate one run, resulting in very significant cost savings. Despite the high temperature, SDI's high-performance logging tools provided the Operator with excellent quality data to help optimize the management of its well and reservoir.