

# CASE HISTORY

## EXCELLENT PLT DATA IN TIGHT RESTRICTION WELL

### APPLICATION

Production optimization  
Cased Hole Services

### TECHNOLOGY

SlimFlow MPLT

### LOCATION

North Sea

### CLIENT CHALLENGE

A velocity string was installed in a gas producer to help enhance performance that had become hindered by water production. The operator wanted to evaluate the downhole flow profile and identify gas and water entries across the perforated 5" liner, choosing to deploy a memory production logging tool (MPLT). The presence of a 1.688" restriction limited the options for deployment of PLT technology that could be relied upon to acquire high-quality measurements in the 5" liner.

### SCIENTIFIC SOLUTION

SlimFlow is Scientific Drilling's slimline MPLT system. With a maximum outside diameter of 1.5", it was ideal for the well parameters. The tool comprises the standard sensors found in a PLT string including Tuning Fork Density, Capacitance, In-line spinner and Fullbore spinner.

A comprehensive logging program was followed with passes performed in shut-in and two flow rates. Complete data was retrieved from the tool and the response from all of its sensors were of high quality as can be observed in the log plot data.

### CLIENT VALUE

By utilizing the SlimFlow MPLT system, the client benefited from a slim MPLT technology solution without compromising data quality. The slim tool-string configuration provided the added benefit of reducing the disturbance of the flow regime in comparison with a conventional PLT.

