

CASE HISTORY

SDI'S VULCAN™ FLS 2.25 PROVES SUCCESSFUL IN HARSH ENVIRONMENT

APPLICATION

Coiled Tubing Depth Correlation

TECHNOLOGY

Vulcan™ FLS 2.25

LOCATION

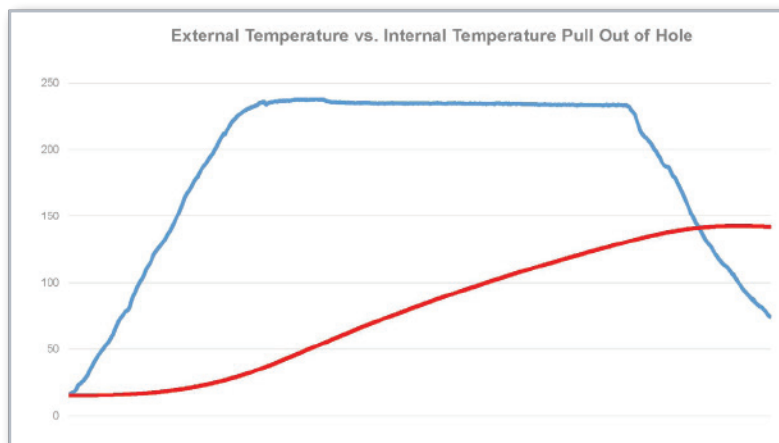
North Sea

CUSTOMER CHALLENGE

To accurately determine the depth of a set plug prior to perforating on coiled tubing, the customer needed to run a GR/CCL correlation log. They were challenged with bottom hole temperatures at 392°F and coiled tubing conveyance. Given the high temperature environment and expected run duration of approximately 16 hrs, the customer needed a reliable tool to ensure the data could be acquired on the first attempt.

SCIENTIFIC SOLUTION

Scientific Drilling utilized their Vulcan™ FLS 2.25 system because of its high temperature rating and extended run duration capabilities. In order to qualify the tool, SDI modified the test oven to house the system. The test was regulated in real-time mode so the internal temperature could be monitored. A run simulation was then conducted to ensure the battery temperature limit of 329°F would not be breached. The maximum external temperature during the test was 450°F and the maximum internal temperature remained below 293°F. The test qualified the tool for the application and a tandem tool string was then conveyed downhole on coiled tubing where high accuracy data was retrieved.



Simulation of the run prior to the event, charting the increase of internal tool temperature against the external temperature

CUSTOMER VALUE

SDI provided the customer with the required depth correlation data, enabling them to finalize the subsequent well completion activities with confidence. Due to SDI's excellent performance and ability to provide quality data in such a harsh environment, additional opportunities were awarded.