

CFLEX® CASE STUDY: 2019

Integrated External Fundament Ensures Critical Zonal Isolation

Challenge

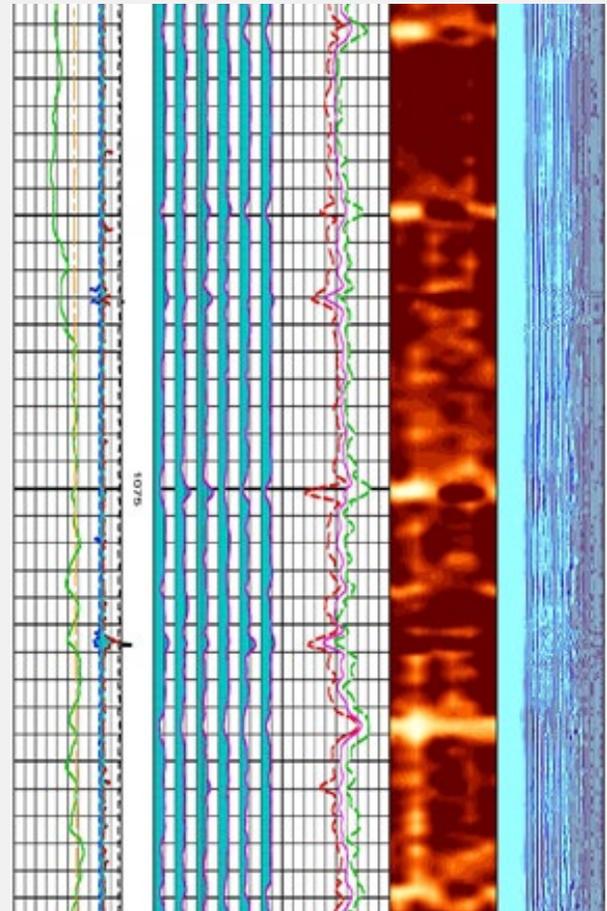
A customer in Asia-Pacific was planning to drill through and cement casing in multiple and varying formations during a 12-1/4" hole section. The complexity of varying formations meant that a long primary cement column would risk result in cement channelling and leave the well exposed to potential inflow. A solution was required in order to maintain excellent cement bond qualities at the shoe and simultaneously isolate formation across the entire 12-1/4" hole interval.

Solution

Archer proposed to install the CFLEX® with Fundament in the casing string with the intention to implement the technology as a way to optimise the primary cement job. Conducting the cement job in two stages increases the amount of competent cement across the entire interval while also ensuring that the formation is not compromised at the casing shoe. The location of the CFLEX® with integral fundament was paramount to the success of the secondary cement job.

Result

The CFLEX® with Fundament was successfully installed and operated and the secondary cement job was conducted as planned. The CFLEX® was then verified permanently closed before a log was performed to validate the success of the cement job, indicating excellent cement bonds across all target areas. The casing string and cementing program was able to be optimised for the well, ensuring that no remedial cementing was required and that full confidence in isolation was achieved



The CFLEX® was placed at 1147m. The log indicates a successful cement job above the CFLEX® with Fundament, proving the effectiveness of the fundament as a support base for cement and enabling close to 500m of cement to be correctly placed.

