

SecureView® Service Evaluates New Sand-Jetting Technique, Saves Operator from Entering into a \$50 Million Contract

Objectives

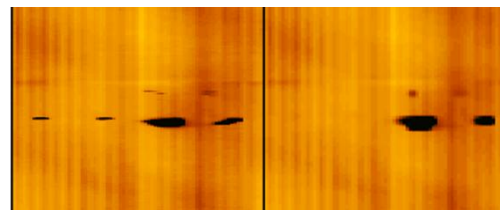
- Deliver high-resolution logs that illustrate the depth and size of each perforation created by a new sand-jetting technique in a tight-gas development well. The client will use the data to evaluate the effectiveness of the fracturing technology and decide whether to pursue a US \$50 million per year contract. A standard-resolution logging run provided inconclusive results.

Our Approach

- Weatherford deployed the Compact sonic dipole (CXD) tool and the CalView® tool, which is a part of the SecureView casing integrity and cement evaluation service.
- To provide the most accurate evaluation, the tools were deployed in high-resolution mode, which enabled evaluation at 400 samples/m compared to industry-standard 40 samples/m. The crew lowered the tool on wireline and completed logging in one run.
- The high-resolution tools provided a comprehensive analysis of the perforations and casing integrity, including all premium connection collars. The logs showed many smaller perforations that were missed by the lower-resolution tool, and found that many perforations were at the incorrect depth and did not penetrate to the desired range.

Value to Client

- The Weatherford SecureView service and high-resolution CalView and CXD tools performed a high-resolution evaluation of the well. The logs provided data that enabled the client evaluate the effectiveness of a new sand-jetting technology.
- Based on the data provided by the tools, the operator elected not to pursue the US \$50 million sand-jetting contract because it did not meet their fracturing specifications.
- The high-resolution logs provided a clear picture of the casing mechanical condition, an exact measurement of perforation sizes and depths, and oriented the 3D image of the wellbore with respect to the high side of the well.



SecureView service log

Low-resolution log

The high-resolution CalView tool provided an exact measurement of perforation sizes and depth. The low-resolution caliper log (right) does not indicate all perforations while the CalView tool (left) indicates additional, smaller perforations.

LOCATION

Neuquen Basin, Argentina

WELL TYPE

Onshore, tight gas

WELL DEPTH

9,892 ft (3,015 m)

FRAC STAGE DEPTH

To 7,218 ft (2,200 m)

CASING SIZE AND TYPE

4 1/2-in.

CASING WEIGHT

13.5 lb/ft P-110 (TBLUE connection)

PRODUCTS/SERVICES

- SecureView service
- CalView tool
- Compact sonic dipole tool



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