

Well Integrity Platform

Spectral Leak Detection (SPEC-LD*)



Oilfield Services

"Stop Guessing - Listen to your Reservoir"

**Sustained Casing/
Annulus Pressure**

TGT's Well Integrity Platform is being built to address the ever changing Oil & Gas market and its need for high quality services. Our range of memory logging services addresses the full well lifecycle, and provides Operators with tool packages to assist in the critical decision making process of well optimization.

Case Study

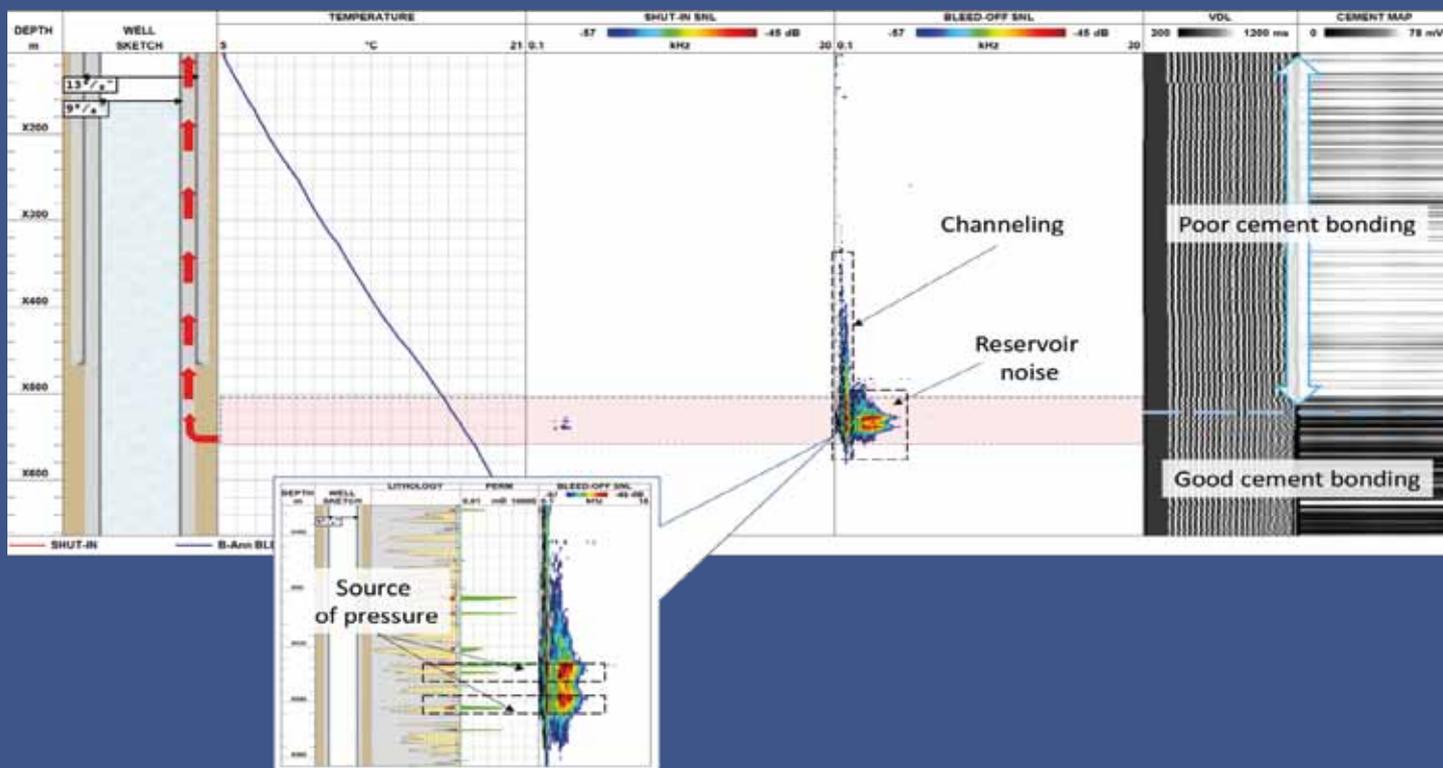
Sustained casing/annulus pressure (SCP/SAP) might occur at any time during the well life cycle. It might be caused due to several factors such as gas migration from a high-pressured subsurface formation through the leaking or crack cement sheath in one casing annuli. It also may be caused due to corrosion of casing or tubing, failure on the connections, leakage of downhole accessories as well as other type of well integrity failures.

Problem: In this case, our Customer had a well with sustained casing/annulus pressure (SCP/SAP) of 65 psi in B annulus. After bleeding it off, it constantly built up again. This represented a major risk to the well.

Diagnosis: TGT conducted a survey with its highly sensitive Spectral Leak Detection (SPEC-LD) service in order to determine the leak source. The SPEC-LD* is a combination of high precision temperature with a high definition spectral logging noise. The survey was performed in two stages, with the 65 psi at surface in B annulus and while bleeding it off.

Findings: The log determined the channel behind casing which allowed the gas pressure build up at surface. It also helped our Customer to identify the gas source in the matrix.

Actions: The Customer worked over the well. The well was perforated with high density guns and cement was squeeze above the gas source area eliminating the SCP/SAP.



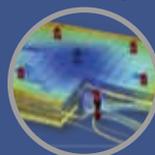
Reservoir Characterization



Well Integrity



Cross Well Diagnostics



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Oilfield Services

TGT is an oilfield services provider supplying game-changing logging and reservoir modeling technologies. The company offers advanced solutions in the areas of Reservoir Characterization, Well Integrity and Cross Well Diagnostics. TGT proprietary services can be deployed through multiple strings, on any conveyance type and in any well.

Our patented software and modeling techniques coupled with a strong geoscience team, allows TGT to offer unique solutions to Customers globally.

TGT prides itself on in-house research and development (R&D) as well as first class manufacturing (MFG) capabilities. We hold several patents, copyright technologies and applications. As an organization we continue to innovate and actively contribute to the industry with regular technical publications including SPE.