



Sealing the future of well integrity

Cecilie Torvund | Director Sales and Marketing



27+



800+



35

The Challenge – SCP B-Annulus NCS

- SCP- annular pressure build up after venting not caused by thermic effect or any applied pressure
- Representing a barrier failure and potential HSE and environmental risks

Well status

Pressure and injection tests indicated no communication with A-Annulus.

Injectivity
4l/H
@104Bar

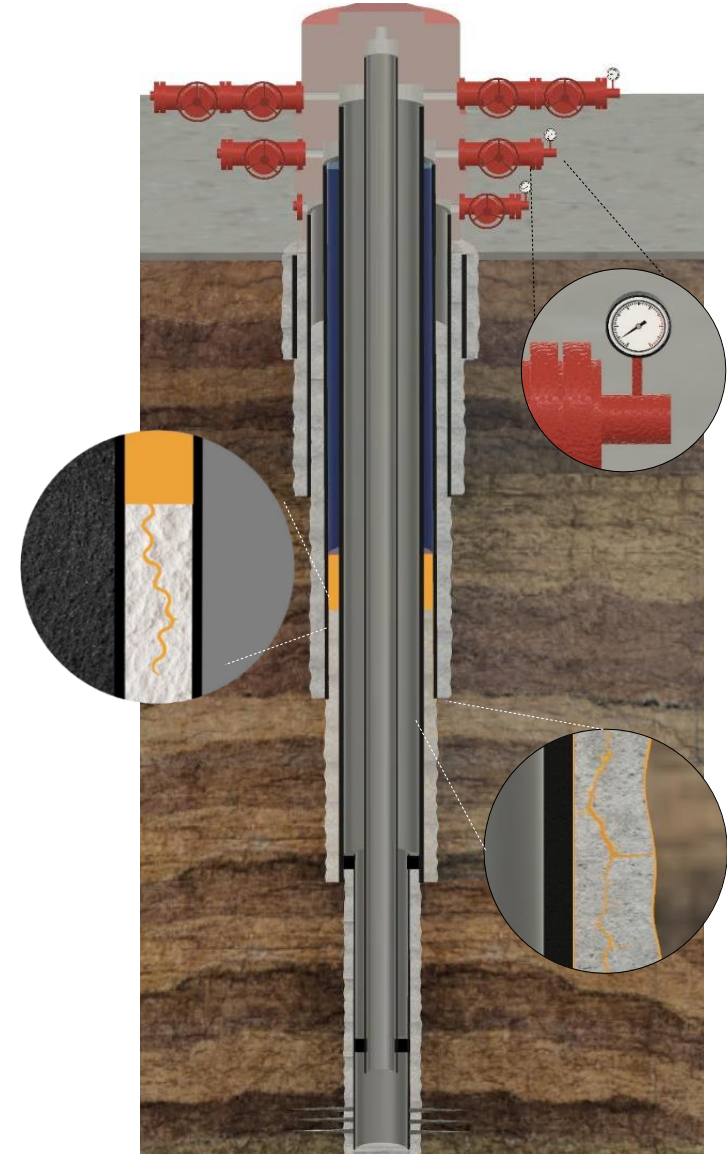
Micro
Channel
0,5mm

Static Temp
50 Deg C

Incl at TOC
44 Deg

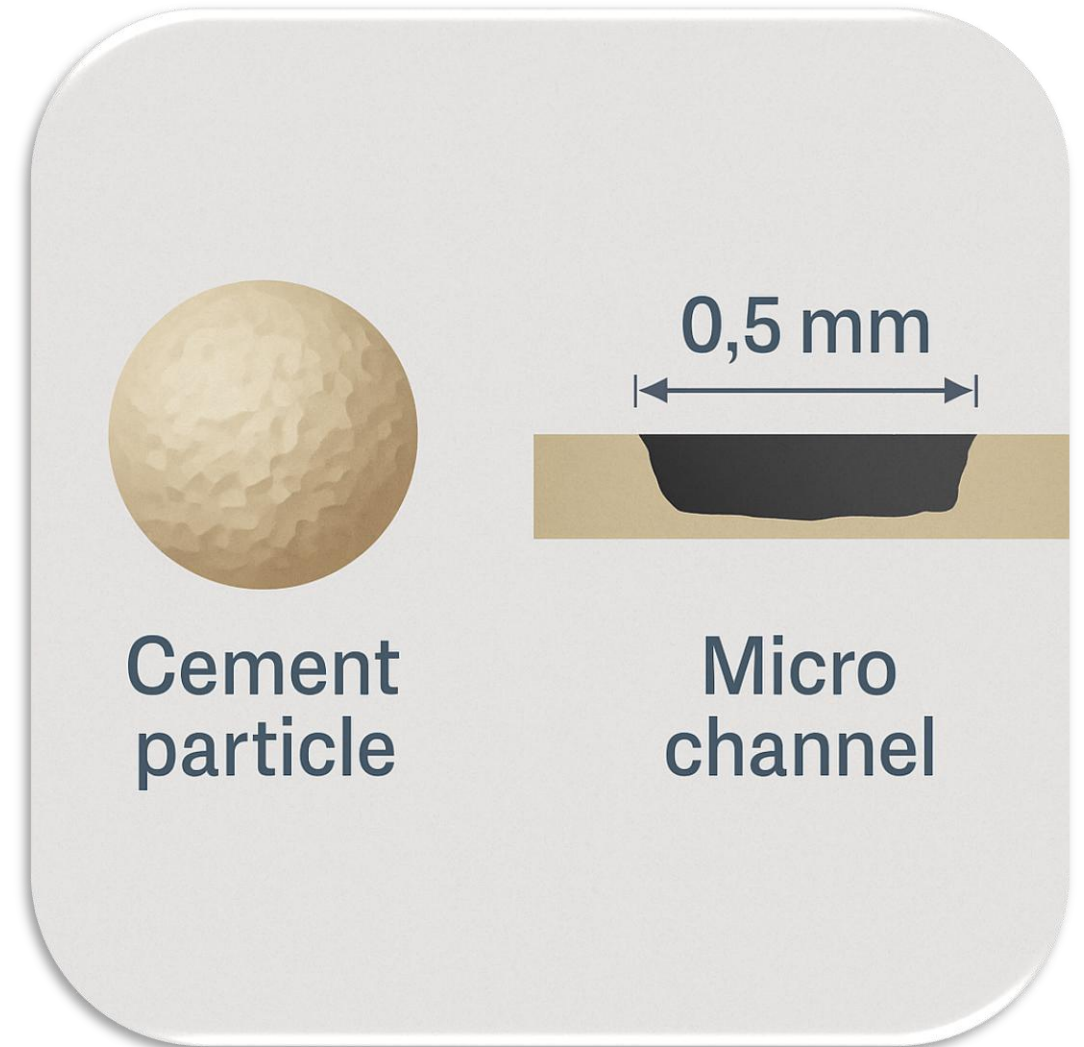
Annular fluid
1,6sg WBM

TOC B-
Annulus
968MD



Reason and evaluation

- Gas migration through micro annuli in cement cap or leak in casing or completion system
- Reservoir gas migrated through micro fractions in the cement itself, along pore bonding cement-steel interface as well as through cement formation interface.

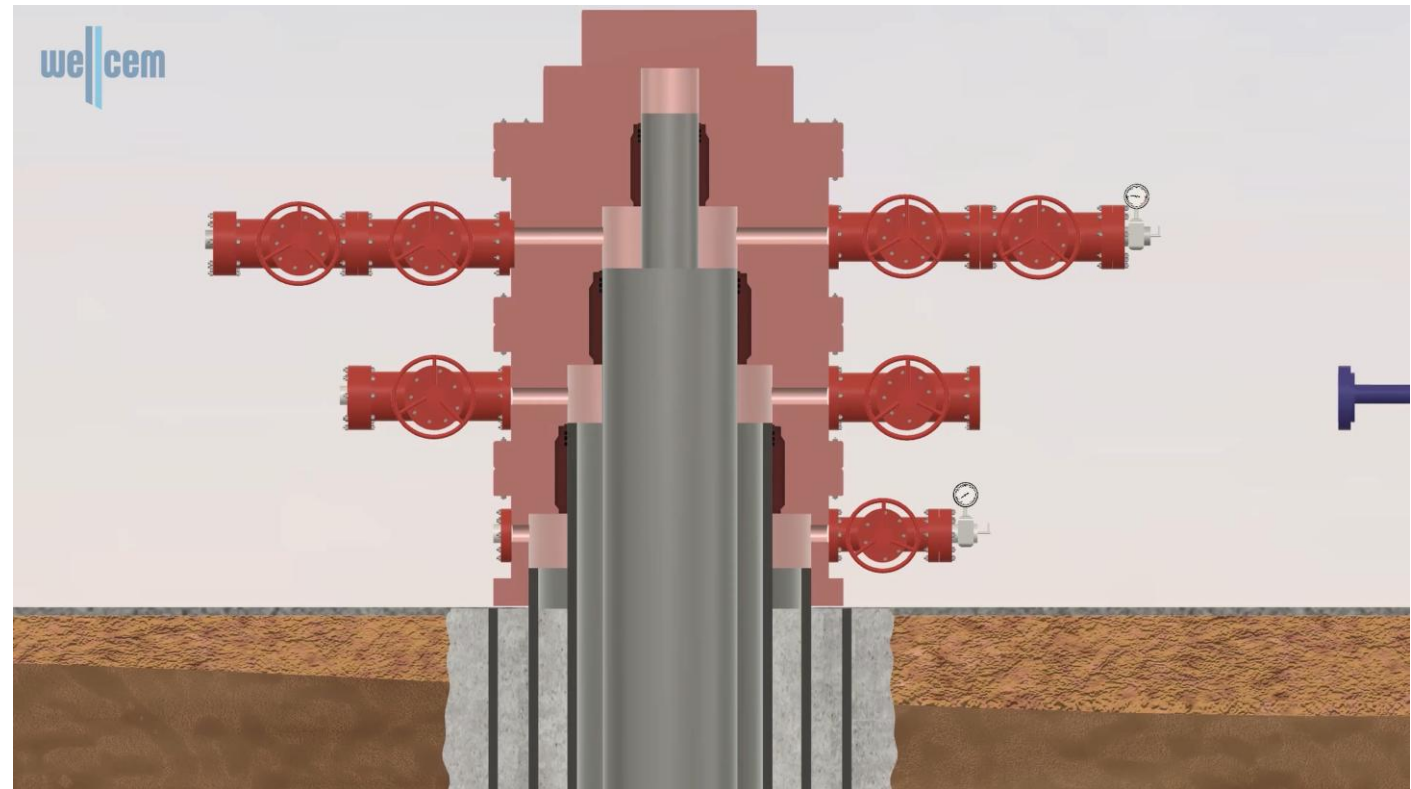


Solution

- ThermaSet ultra thin resin allows for deep penetration in micro fractions and pores where cement fails
- Gravity feed or conveyed by bailer or CT to pain point. Forming a strong impermeable permanent seal.

Results

- A ThermaSet engineered solution was tailored for the well conditions.
- Setting time and density designed for optimal injectivity
- Successful inflow test for 24 h show no pressure build up
- Permanently resolving SCP



Q&A

ThermaSet® Solution Applications

Zonal Isolation

Penetrating through screens and gravel packs, further into formations to effectively seal off zones.

Casing leak repair

Restore casing integrity quickly and cost-effectively with precise injection and durable sealing.

Sealing packer leaks

Restore packer integrity in just two days with only two people, minimal equipment, lower costs, and reduced risk.

Curing lost circulation

Instead of plugging the entrance of the loss zone, our solution penetrates and cures inside the loss zone.

Wellhead repair

Squeezing into narrow paths to secure a permanent lasting seal.

Sealing failed cement

Penetrate and seals small, leaking cracks unreachable by traditional methods.



Cecilie.Torvund@wellcem.com



MAERSK



أرامكو السعودية
Saudi Aramco

