



SWELLPLUG ZI

SUCCESS STORY

SwellPlug used to bring well online saving time and increasing production

Australia

131

DAYS SAVED



INCREASE IN PRODUCTION

1000psi

BARRIER IN 16HRS

SwellPlug ZI consists of patent protected water swellable particulate material pumped in a slurry that swells to isolate the target area. Unlike other water swellable elastomers, the TAQA swellable material remains swollen regardless of the time or condition making the seal permanent.

THE CHALLENGE

A newly completed well with SwellPackers was required to be brought online before the full setting time of the packers had passed. As a result, the barrier was only holding 1,600psi rather than the required 2,500psi. The operator needed a rapid, low-risk solution to restore isolation and avoid costly delays in bringing the well online.



THE SOLUTION

SwellPlug was selected as the most effective method to deliver a fast and flexible secondary barrier around the under-performing packer. The SwellPlug pill composed of coarse grade SwellPlug and 4% fiber. SwellPlug was pumped from surface and placed directly around the packer at elevated flowrates to maximize circumferential distribution. Surface samples were maintained at near-downhole temperature to monitor swelling kinetics and ensure safe timing for pressure testing.

THE RESULT

After a 20-hour swelling period and a staged squeeze sequence, the treatment showed strong pressure response confirming uniform material placement around the packer. Following an additional swelling window, the final pressure test was performed at 2,500psi for 15 minutes with no pressure drop, fully meeting the operator's acceptance criteria.

The Swellplug treatment restored wellbore integrity without mechanical intervention, rig-time escalation, or the need to pull existing completion - enabling the operator to bring well online with confidence.

Client quote - "After all of the issues that we've had with this well, it was a relief that this job went off without a hitch, the SwellPlug was spotted in place perfectly and the pressure testing was successful on the first attempt. The job went perfectly and it was a pleasure to work with TAQA."

WELL DATA

- Field: Wombat
- Location: Victoria Australia
- Well Type: Gas Producer
- Completion: 4.5" with Swellable Feed-Thru Water Swells Packers



SwellPlug



Skid pump with SPM triplex service pump



10 bbl batch tank with 0.2 bbl dead volume and agitators, hydraulically driven