

Case Study:

SwellStacks successfully reinstates function of safety valves

SwellStacks solve the problem to getting this well back on production successfully by sealing badly damaged sealbores

Well Data

Location: Indonesia
Operator: Pertamina Hulu Mahakam
Field: Handil
Well: H-C-358
Well Type: Oil Producer
Installation Date: August 2021
Completion Sizes: 31/2" / 2.81" Sealbore



Background

Well H-C-358 has an internal Gas Lift Macaroni string and utilises the existing SSSV landing nipple and control line. From time to time the string is required to be retrieved and reset.

The Challenge

After multiple retrieval and resetting of the Gas Lift Macaroni string, the sealbores became damaged and the PHM previously utilised the Swellable O-Ring from TAQA to solve the sealing issue. Initially this solved the problem but after time the sealbores became worse and they required a more substantial sealing mechanism to enable full control pressure and longevity.

TAQA Solution

TAQA expanded their knowledge on swellable products to come up with the SwellStack. The SwellStack replaced the entire OEM packing stacks and using the control fluid as well as the wellbore fluids, swelled the rubber into the scored or damaged sealbore creating a pressure tight seal to enable full opening pressure to the safety valve and restoring the well to production, saving time and cost on previous operations.

Project Results

SwellStacks have become the essential and proven next step solution for extremely damaged sealbores in the Pertamina Hulu Mahakam fields

