#### Malaysia

# CleanWell<sup>®</sup> tools enable complex wellbore cleanout in a single-trip and save operator time and costs

Turbo Tech® II valve and Inflow Tech® packer with SCM increase new technology footprint in Malaysia

### CHALLENGE

- Perform single-trip wellbore cleanout and negative test on liner
- Reduce trips in the well to save time and costs

#### SOLUTION

- Inflow Tech® packer and Turbo Tech® II valve in the main string to achieve run objectives in a single trip
- Inflow Tech<sup>®</sup> packer with SCM to perform a negative test and displacement
- Turbo Tech<sup>®</sup> II circulation sub to allow for high-rate circulation without waiting on balls/darts to land

#### RESULT

- Multiple objectives completed in a single trip saved operator significant time and costs
- Negative test performed on the wellbore
- Two compression-set tools run and functioned in the same string successfully



## **Overview**

A major operator in Malaysia faced a complex wellbore cleanout requirement with no previous run history at the location. The operational objectives, required a string design that allowed for a negative test, cleanup, and displacement in a single trip. After collaboration with the global team, Halliburton identified a field-proven, reliable solution from the CleanWell® tools portfolio. This integrated solution enabled a negative test of the liner top, full displacement from drilling to completion fluid, and high-rate circulation and filtration to the required specification, without dropping activation balls or darts and all within a single trip.

## Challenge

The operator's objectives for the wellbore cleanout and well displacement phase proved complex. Specifically, the operator required a single-trip operation to achieve an isolated negative inflow test on the downhole liner tops, displace the well to completion fluid, and filter to the required specifications.

# Solution

Based on Halliburton's extensive track record with similar operations, the operator selected the Halliburton CleanWell® tools solution. To accomplish the well objectives in a single trip, Halliburton integrated the Turbo Tech® II multi-activation bypass valve and the Inflow Tech® high-performance negative test packer with setting control module (SCM) into the wellbore cleanup string. This approach maximizes the efficiency of two industry-proven compression-set tools, which saves the operator significant time and costs.



Inflow Tech® test packer with setting control module

# Result

Prejob planning played a key role in successful job execution, which involved communications not only between the global and country operations personnel but also with personnel from other locations who performed similar tasks. Drawing upon their experience was helpful to ensure a safe and successful operation. Additionally, Halliburton mobilized local personnel to Norway to gain vital job planning and shop training ahead of the operations in Malaysia. Through effective collaboration both internally and with the operator, Halliburton successfully introduced new technologies, achieved the operator's well objectives, provided essential training to HCT personnel, and used existing global assets. Moreover, the Halliburton team of engineers designed and implemented tailored solutions that met the specific needs of the operator.



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