

CASE STUDY- 2020- MALAYSIA

Stronghold® Barricade® successfully optimized production of oil well by isolating the reservoir from water producing zones

Challenge

An operator in Malaysia run a 7 inch liner in 8,5 inch open hole across multiple gas, oil and water bearing zones. A cement bond log run after cementing the liner showed bad zonal isolation between the reservoir zones. The bottom water bearing zones were poorly isolated from the above oil producing zones.

Solution

The Stronghold® Barricade® was selected as the best solution to remediate and isolate the water bearing zones. Archer and the operator together designed the 7” Barricade® perforate, wash and cement operation to place a permanent barrier in the annulus between the lower water zones and the reservoir. A zone from 10,470ft - 10,530ft was chosen as the perforate, wash, cement interval. The Stronghold® Barricade® system eliminated the need for section milling reducing significantly the intervention cost for the operator.

Result

A permanent barrier was successfully placed across the perforated interval to isolate reservoir from the water bearing zones below. The cement was tagged at 10,354ft MD, dressed down to 10,450ft MD (20ft above top of perforations at 10,470ft MD) and was pressure tested to 3000psi. Archer successfully optimized the production of the well by reducing the water cut through isolating the reservoir from water producing zones.

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STRONGHOLD®
Permanent Caprock Integrity

