

CASE STUDY- 2021- MIDDLE EAST

**Stronghold® Barricade® successfully remediate SAP-B on 3 wells for major operator**

**Challenge**

Sustained Annulus Pressure in the B annulus (SAP-B) is a major issue for the operator in UAE with a considerable number of wells requiring constant monitoring and bleed off as a result. The conventional methods such as cement squeeze jobs and section milling are time consuming, challenging and often unsuccessful. Given the operational challenges it is extremely difficult for the operator to achieve the length of annular barrier desired.

**Result**

Stronghold® Barricade® enabled the effective placement of a 165ft cement barrier on the outside of the 9-5/8" casing section. This new annular barrier provides the operator with isolation from the hydrocarbon source charging the SAP-B, in all 3 wells there has been no recorded return of the pressure. Furthermore the operational optimisation of the Archer system enabled the customer to increase success rate and barrier length whilst reducing overall operational time.

**Solution**

The Stronghold® Barricade® perforate, wash and cement system was deployed utilizing a mechanical perforation device to alleviate the logistical challenges related to explosive perforation guns. The Spartan® retrievable bridge plug was run and set below the perforated interval as a cement fundament to support the new cement placed in the casing annulus. Washing and cementing was conducted across the perforated interval using the Stronghold® Barricade® cup tool ensuring effective washing and positive displacement of fluids in the casing annulus. The cement plug was drilled out, the well re-completed and brought back online

■ Stronghold® Barricade® vs. ■ Conventional Method

