

# Stronghold™ Barricade System

## Permanent Caprock Integrity

Archer's **Stronghold™ Barricade™** is a perforate, wash and cement placement system that reduces plug and abandonment (P&A) costs by creating a rock-to-rock barrier in one trip.



**STRONGHOLD™**

### Benefits

- Field proven
- Significant time and cost savings
- Effective rock-to-rock sealing barrier
- No section milling and swarf handling
- No underreaming
- Efficient one-trip system with TCP
- No surge or swab effect
- Performs the fastest perforate, wash, and cement operations in the market

### Applications

- Well abandonment
- Isolating Sustained Casing Pressure (SCP)
- Screen washing
- Slot recovery

### Features

- High circulation rates
- Dual swab cup either side of washing ports
- Adjustable distance between swab cups
- Flow by-pass system
- Disconnect system available
- Ball or dart drop available

With the addition of the one-trip TCP (Tubing Conveyed Perforation) module, the Barricade is designed to wash and clean the annulus of a perforated casing or liner in a selected formation zone or between casings, then accurately place a permanent barrier.

A one-trip operation with the Barricade consists of:

- Perforating the section - at which point the guns drop automatically,
- Thoroughly washing the perforated annular section,
- Placing spacer fluid in the annulus using our calculated "Pump and Pull" method,
- Placing the barrier material using the same technique.

After the annular cleaning phase, high-circulation rates and pipe rotation enhance debris removal from the washed annulus and out of the well.

### Specifications

Casing Size, in	6 5/8 - 7 5/8	9 5/8 - 16
Min ID, in	2.2	2.3
Circulation rate, lpm [bbl/m]	1,600 [10]	2,200 [14]
Pressure rating, psi [bar]	5,000 [344]	5,000 [344]

Adjustable distance between swab cups from 1 - 3 ft.



Archer is a global oil services company with a heritage that stretches back over 40 years. With a strong focus on safety and delivering the highest quality products and services, Archer operates in 40 locations over 19 countries providing drilling services, well integrity & intervention, plug & abandonment and decommissioning to its upstream oil and gas clients. **We are Archer.**