Stronghold® Barricade® System

Permanent Caprock Integrity

The Stronghold® Barricade® System 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

With the addition of the one-trip Tubing Conveyed Perforation (TCP) module, the Barricade® System 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® System 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 (typically cement) using the same technique





Benefits

- Field proven
- Significant time and cost savings
- Effective rock-to-rock sealing barrier
- No section milling and swarf handling
- No underreaming
- Effective one-trip system with TCP
- No surge or swarf effect

Features

- Dual swab cups either sides of washing ports
- Adjustable distance between swab cups
- Disconnect system available
- Ball or dart drop available
- 1-trip solution with mechanical Cement Base available

Specifications

| Casing sizes, in | 5" | 7" | 7 %" | 9 %" | 10 ¾" | 13 ¾" | 16" |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Min ID, in (Inner Tube) | 1,008 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 |
| Circulation rate, Ipm [bbl/m] | 1,325 [8] | 1,600 [10] | 1,600 [10] | 2,200 [14] | 2,200 [14] | 2,200 [14] | 2,200 [14] |
| Pressure rating, psi [bar] | 3.730 [258] | 5.000 [345] | 5.000 [345] | 5.000 [344] | 5.000 [344] | 5.000 [344] | 5.000 [344] |

Adjustable distance between swab cups from 1-3 ft.

