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.

**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

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**

<table>
<thead>
<tr>
<th>Casing Size, in</th>
<th>6 5/8 - 7 5/8</th>
<th>9 5/8 - 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min ID, in</td>
<td>2.2</td>
<td>2.3</td>
</tr>
<tr>
<td>Circulation rate, lpm (bbl/m)</td>
<td>1600 [10]</td>
<td>2,200 [14]</td>
</tr>
<tr>
<td>Pressure rating, psi [bar]</td>
<td>5,000 [344]</td>
<td>5,000 [344]</td>
</tr>
</tbody>
</table>

Adjustable distance between swab cups from 1 – 3 ft.