The Stronghold® Fortify® system is the next generation barrier verification system used in plug and abandonment (P&A) and slot recovery. It is a superior system used to verify the integrity of existing annular barriers such as creeping formation and cement, ensuring Permanent Caprock Integrity.

**Benefits**
- One-trip system
- Integrated pressure verification system with primary and back-up temperature and pressure gauge to confirm annular integrity.
- Small test volume for accurate integrity testing
- Solid ballseat system eliminating the need to drop balls or darts from surface

**Applications**
- Permanent Plug & Abandonment
- Slot recovery
- Workover operations
- New drills

Archer’s Stronghold® Fortify® system provides a reliable verification of annular integrity, and is an effective alternative to traditional integrity testing.

Archer’s Fortify® system achieves this in just 1 trip by:
- Perforate the casing
- Test the integrity of the annulus
- Verify annulus integrity utilizing a unique pressure verification system
- Cement across the perforated area

The significant improvement from the standard integrity tests systems in the market is the two independent pressure and temperature sensors integrated in the Fortify® system. The sensors deliver two independent verifications in addition to traditional volume verification. Fortify® is the next generation barrier verification system.

**Features**
- VO rated ball valve system

**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>2200 [14]</td>
</tr>
<tr>
<td>Pressure rating, psi [bar]</td>
<td>5000 [344]</td>
<td>5000 [344]</td>
</tr>
</tbody>
</table>

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.