

Stronghold™ Fortify™ System

Permanent Caprock Integrity

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**.



STRONGHOLD™

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

Features

- VO rated ball valve system

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.

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] |



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.**