Stronghold® Defender® System

Permanent Caprock Integrity

Archer's field proven Defender® barrier test system enables operators to perforate and test an annular barrier. The Defender® is part of a series of Stronghold® perforating, washing, cleaning and cementing systems to deliver faster, safer and more economical solutions for operators worldwide.

The Defender® system provides a safe, quick, economical and effective alternative to traditional plug and abandonment (P&A) techniques of casing recovery, milling and perforate, wash and cement. Traditionally, several runs were required to test the annulus. Setting two plugs and perforating usually took up to 3 runs.

Archer's Defender® system achieves this in just 1 trip by:

- Perforating the casing or liner
- Verifying the integrity of the annulus
- Placing barrier material in the casing and annulus

The result is a permanent verified barrier that is achieved in a single trip – a simple, cost effective solution for annular remediation, bringing absolute protection and safety. Together with Tubing Conveyed Perforating (TCP) products and new charge development, Archer's Stronghold® systems support the safe and efficient execution of operations. In designing the Stronghold® Defender® system, our engineers focused on 3 key areas – Efficiency, Flexibility and Reliability to produce a service that is economical, efficient and effective.

Benefits

- Field proven
- Significant time and cost savings
- Efficient one-trip system with TCP
- No section milling and swarf handling
- Qualification of an effective barrier
- No surge or swab effect

Features

- Primary and back-up swab cup design
- Adjustable distance between swab cups
- Flow by-pass system
- Disconnect system
- Ball or dart drop

Specifications

Typical casing sizes, in	65/8-75/8"	9 5/8" x 16"
Min ID, in	2.2	2.3
Pressure rating, psi [bar]	5,000 [344]	5,000 [344]
Specifications may be subject to change		

Archer is a company providing drilling and well services to the global energy industry. Our heritage stretches back over 50 years and we are 5,000 employees globally. Archer operates in over 40 countries, providing sustainable high-quality services and innovative technology to optimize our customer's energy solutions. **We are Archer**.

