

Stronghold Rampart

Economical, Efficient and Effective Plug & Abandonment System

Archer's Rampart system enables operators to perforate, clean and cement an annular barrier all in one trip. Together with the Barricade and Defender, the Rampart is part of a series of Stronghold perforating, washing, cleaning and cementing systems to deliver faster, safer and more economical P&A solutions.

Benefits

- Significant time and cost savings
- Efficient one-trip system with TCP
- Low ECD due to vortex effect
- Effective cementing operation
- No swarf handling
- Qualification of an effective barrier
- No surge or swab effect

Applications

- Well abandonment
- Slot recovery
- Isolating sustained annulus pressure

Features

- Slim OD
- High velocity
- Excellent flow bypass

Contact your local Archer Oiltools representative for more information on the Stronghold family of tools suitable for your well needs.

www.archerwell.com

The Rampart system is designed to perforate, clean and cement, all in one trip. The slim outside diameter (OD) enables the Rampart to enter wellbores with restricted access. This system cleans the debris behind the casing without exposing the formation to high equivalent circulating density (ECD), which significantly reduces the risk of losses.

The Rampart flowports create a high velocity fluid vortex even at low pump rates. The differential pressure generates a powerful force that extracts accumulated debris from behind the casing. It retains the debris in the drilling fluid and transports it out of the wellbore with the high velocity column of fluid.

The spacer and cement displacement uses the Rampart flowports, accurately placing the cement by using a "pump and pull" method, creating a solid barrier. This system is a step change in annulus cleaning and cementing for mature fields.

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

- Perforating the casing or liner.
- Cleaning the annulus with a high velocity vortex effect.
- 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.

Specifications

Casing Size, in	4 1/2- 6 1/2	7 - 16
Min ID, in	2.2	2.3
Pressure rating, psi [bar]	5,000 [344]	5,000 [344]

