

BPS and Fiber-optic Success

Background

Deploying fiber-optic cables to analyze and optimize completion and production strategies is becoming more commonplace throughout the industry. These relatively fragile cables are attached to the entire length of the casing from surface to toe port and require extra caution and specialized equipment to minimize physical damage. Traditionally, wireline or tubing conveyed perforating runs are required to initiate flow on fiber optic installations. This requires additional time and has some operational risks, when compared to running toe ports.

Most toe ports and sleeves available on the market are not easily modified for the specialized application of a fiber-optic installation. The primary focus of these installations is to preserve the fiber-optic cable and allow reservoir access. The ideal toe port selection requires a customizable OD, flute spacing, flute offsets, eccentric capability and length consideration. This allows the operators to get the ease of toe initiation without any increased operational risk to their fiber-optic completions.

Solution

Our Burst Port System (BPS™) is perfectly suited for this application. We can fully customize the flutes, number of ports, and length of the BPS for any fiber-optic installation. The customer and fiber-optic specialists work closely with our engineering team to design a fit for purpose solution for their cable specifications and wellbore.

We help the customer match their specific needs to our design constraints. Typically, we match geometries with centralizers, clamps, and other downhole equipment to protect at risk sections of fiber-optic cable when running in-hole and during toe preparation.

Result

To date, seven operators have deployed our BPS on 12 fiber-optic installations. Each job was completed successfully without issues throughout the operation. We are very proud that we can partner with our customers and offer a customizable toe port for this specialized application.

Case study facts

Location: North America

Application: Fiber-optic installations

