

Tubing Conveyed applications

Closed -Chamber Surge-and-Test Application

TCP string is used to provide a controlled surge volume by allowing the well to flow through the surge chamber. The surge chamber initially run empty and then opened to the formation by the lower tubing isolation valve.

Dual String Multizone Selective Completion Application

In a paramount completion, the completion string, including all downhole hardware and guns, is conveyed into the well on the production tubing spaced so that the guns are opposite multiple zones of interest after the packers are set.

Downhole Temperature Versus Expected Time Exposure

Downhole temperature and expected time exposure are among the most important parameters to consider when planning a TCP operation.

Reperforation with Packer Set between Existing Performations Applications

In this application, a well may be reperforation or a new zone perforated with open perforations in the well.

Stab-In Completion Application

In a permanent completion, the packer and sealbore assembly are set on wireline, and the guns are conveyed on the production tubing and stung into the packer.

Sucker Rod Pump TCP Firing Systems

Sucker rod pump installations prevent creating an underbalance with

conventional tubing-conveyed perforating TCP techniques.

Single-Trip TCP-Acid Franc-DST Application

Using this string, a well may be perforated, acid fractured and tested through a DST string on a single trip into the well.

Sting-through Completion Application

In a permanent completion, the packer and sealbore assembly are set on wireline, and the guns are conveyed on the production tubing and stung into the packer.

Single-Trip Perforate and Gravel-Pack Application

A well may be perforated and gravel packed on a single trip into the well. The underbalance is created by circulating a lighter fluid through the packer hypass. After firing, the guns automatically drop, allowing the packing operation to proceed.

Single-Trip Selective Firing, Commingled Production Application

With this string, a well may be selectively perforated on a single trip.

TWC Tubing Wireline-Conveyed Perforating System

Deep, hot wells often have a long section of liner. The packer is set in the casing section above the liner hanger, and the production tubing is run a few feet inside the top of the liner. This type of installation prevents conveyance of tubing-conveyed perforating TCP guns.