

Optimized Completion with Interwell Shatter Glass barrier device

Date: 2020
Region: GCC



Key Capabilities

- *Bi-directional barrier*
- *Full bore ID after removal*
- *Efficient removal*
- *Always manage to remove the plug*

Challenge

A major operator in GCC implemented an improvement program focused on increasing standardization and efficiency on platform well operations. Intervention was required to install and remove plugs during the completion installation. As an operational value improvement, the customer was seeking a solution that could be installed as part of the completion string and opened during the planned post completion stimulation activity.

Solution

Interwell proposed to implement the Inter Removable Barrier Device Mechanical open (IRBD-MO) By implementing the IRBD-MO to the completion string the well intervention required was reduced to a minimum increasing the value per well and reducing the risk associated with well intervention.

The IRBD-MO is a bi-directional barrier plug which is integrated as part of the completion string. The tool is qualified according to ISO 14310 and 14998 validation grade Vo. The barrier is removed mechanically by either a mill or spear, depending on deployment; coiled tubing, wireline and jointed pipe may be used. Prior to opening, the tool functions both as a packer setting device and Vo barrier.

Value Created

By implementing the IRBD-MO to the completion string the operator increased the operational efficiency and reduced the operational associated risks by avoiding intervention runs for installation of a retrieval of bridge plug. The IRBD-MO assembly was installed as part of the completion string, and the barrier (glass) was removed during the planned post completion stimulation run. This was achieved by implementing a mill as part of the CT stimulation BHA. This was a time and cost-effective method for the operator whom avoided using rig time for well-intervention activities.

