

WIRELINE AND PERFORATING SERVICES



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Live Well Perforating

Ratchet Connector

Snub into live wells in a fraction of the time and without a drilling rig.

The innovative design behind the Halliburton Ratchet Connector significantly reduces the cost of using TCP techniques in live wells.

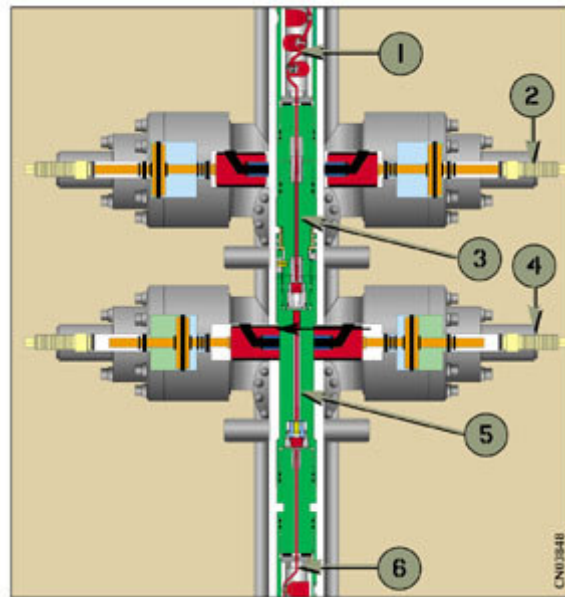
Delivers the advantages of live well TCP perforating - no costly kill fluids, no kill-fluid caused formation damage, formation back-surge pressures clean perforations.

Connection time of 20 minutes or less per VannGun assembly, a fraction of the time other systems require.

A Halliburton Hydraulic Workover unit runs the tools, freeing the drilling rig.

Uses standard BOP stacks with no need for special ram assemblies.

Maintains positive pressure control - does not compromise the pressure control systems engineered into Halliburton hydraulic workover units. At least one BOP ram closes during every running in and retrieval step.



1. **Second VannGun Section**
2. **Blind Ram**
3. **Ratchet Connector**
4. **Seal Slip Ram**
5. **Ratchet Connector Seal Sub**
6. **First VannGun**

Eliminates the risk of damaging producing zones with kill fluids when reperforating producing wells.

Running VannGuns® under pressure with the Halliburton Ratchet Connector.

Closing the seal slip rams around the Ratchet Connector Seal Sub hangs the first VannGun section in the BOP stack. The blind rams are closed.

The second VannGun section, with the Ratchet Section of the Ratchet Connector attached, is stripped through the open Stripper Rams (not shown).

Once the gun section passes, the stripper rams are closed and the blind ram opened. The second gun section is lowered until the two Ratchet Connector sections meet. Turning to the left activates the ratchet, connecting the two sections.

The guns are lowered until the Ratchet Connector Seal Sub atop the second VannGun section is opposite the seal slip ram. After closing the ram, turning to the right releases the running tool. The running tool is raised above the blind ram, which is then closed, and the stripper ram opened. The next VannGun section is attached and the procedure repeated.

The procedure is reversed when
retrieving the perforating assembly.

www.Halliburton.com

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