

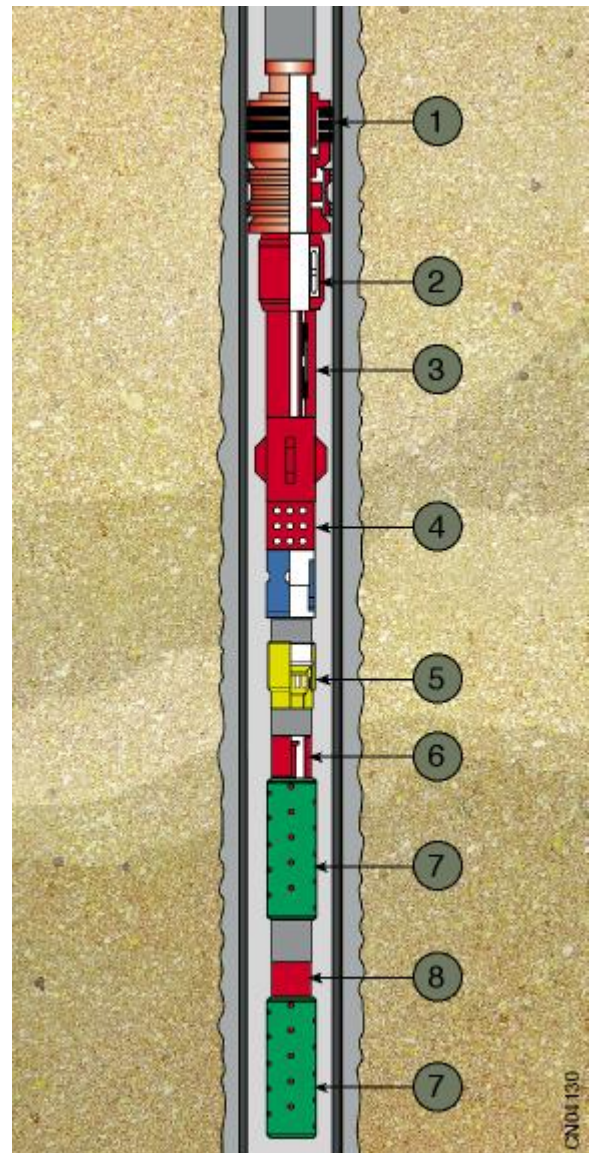
Select Fire™ Systems

Dual-Zone Perforating and Testing

Test Two Zones in a Single Trip

With this system, you can perforate and test the lower zone, then perforate the upper zone, commingling flow from both zones for the second test - all in a single trip. The upper zone can be evaluated by comparing data from the two tests.

1. **Halliburton Retrievable Packer**
2. **Halliburton Pressure Gauge Carrier and HMR Gauges**
3. **Halliburton Shock Absorbers** - Protect instrumentation and packer from shock loads when the VannGuns® fire.
4. **Perforated Tail Pipe** - Provides a flow path to the tubing for produced fluids.
5. **Mechanical Tubing Release** - Shifting a sleeve with conventional wireline equipment drops the expended guns into the rat hole.
6. **Model II-D or Model III-D Pressure-Assisted Firing Head** - Fired after the lower zone has been perforated and tested. Requires hydrostatic pressure to fire, providing for surface safety. A dropped detonating bar releases the firing pin which is forced into the initiator by hydrostatic pressure.



7. **VannGun® Assembly** - Bi-directional boosters and high-velocity, low-shrink detonating cord enhance reliability.
8. **8. Time-Delay Firing Head** - Use as the primary firing system or to backup pressure-assist firing heads. The time delay provides ample time to bleed off tubing pressure ñ retaining the advantages of underbalanced perforating.

www.Halliburton.com

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[Halliburton Service Center](#) or
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