



# FloWell

**Improving Well  
Productivity**  
through formation  
damage removal

**Simple Safe Assured**



# Formation Damage Removal

## That kick-starts well productivity

As part of the SIM\* sealing integrity management system for well remediation and flow control, slickline-set FloWell\* formation damage removal technology improves the productivity of monobore oil and gas wells that have been perforated on wireline by removing the formation damage that results from perforation operations.

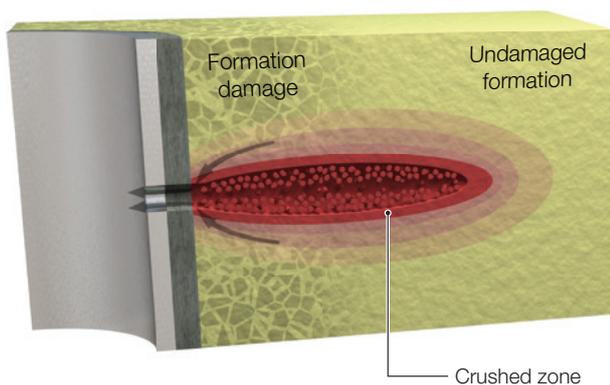
The condition of the near-wellbore region is critical to the production of hydrocarbons, and the perforating process is a major contributor to skin damage. The severe compressive force delivered by perforating can reduce the permeability of the surrounding rock, which in turn reduces productivity.

Used in conjunction with SIM system plugs to provide selective isolation of the zone to be treated, FloWell

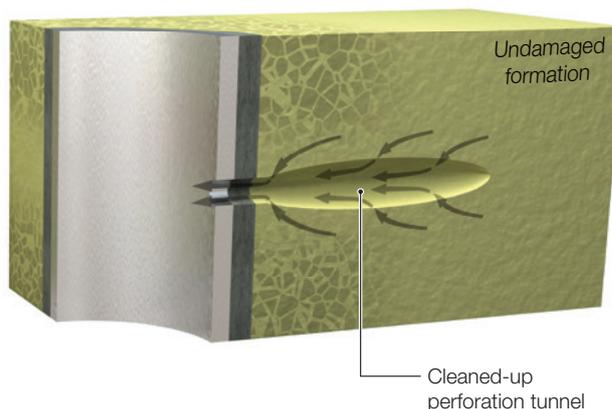
technology induces a sudden pressure drawdown in a wellbore to establish a transient underbalance, resulting in a surge of fluid inflow from the reservoir.

FloWell technology is highly effective at removing numerous types of formation damage, such as crushed zones, tenacious filtercake, and scale in the perforation tunnels.

**Restricted flow path**



**Maximized flow path**



- Deployment with standard slickline tools and running procedures
- Safety benefits of 100% mechanical operation, with no pyrotechnics or electronics required
- Flexible modular design to treat any length of zone
- Easily field redressable in remote locations
- Sized to pass through standard completion restrictions
- Standard fishing neck design for simple recovery
- High-temperature applications up to 350 degF
- Cost-effective means of improving productivity

# Cost-effective, Low-risk Intervention Method

## To clean up wellbore damage

Like all SIM system components, FloWell technology is slickline deployed and 100% mechanical. This proven system provides operators with an efficient approach to remediating damage while also mitigating the risk of conducting routine slickline operations.

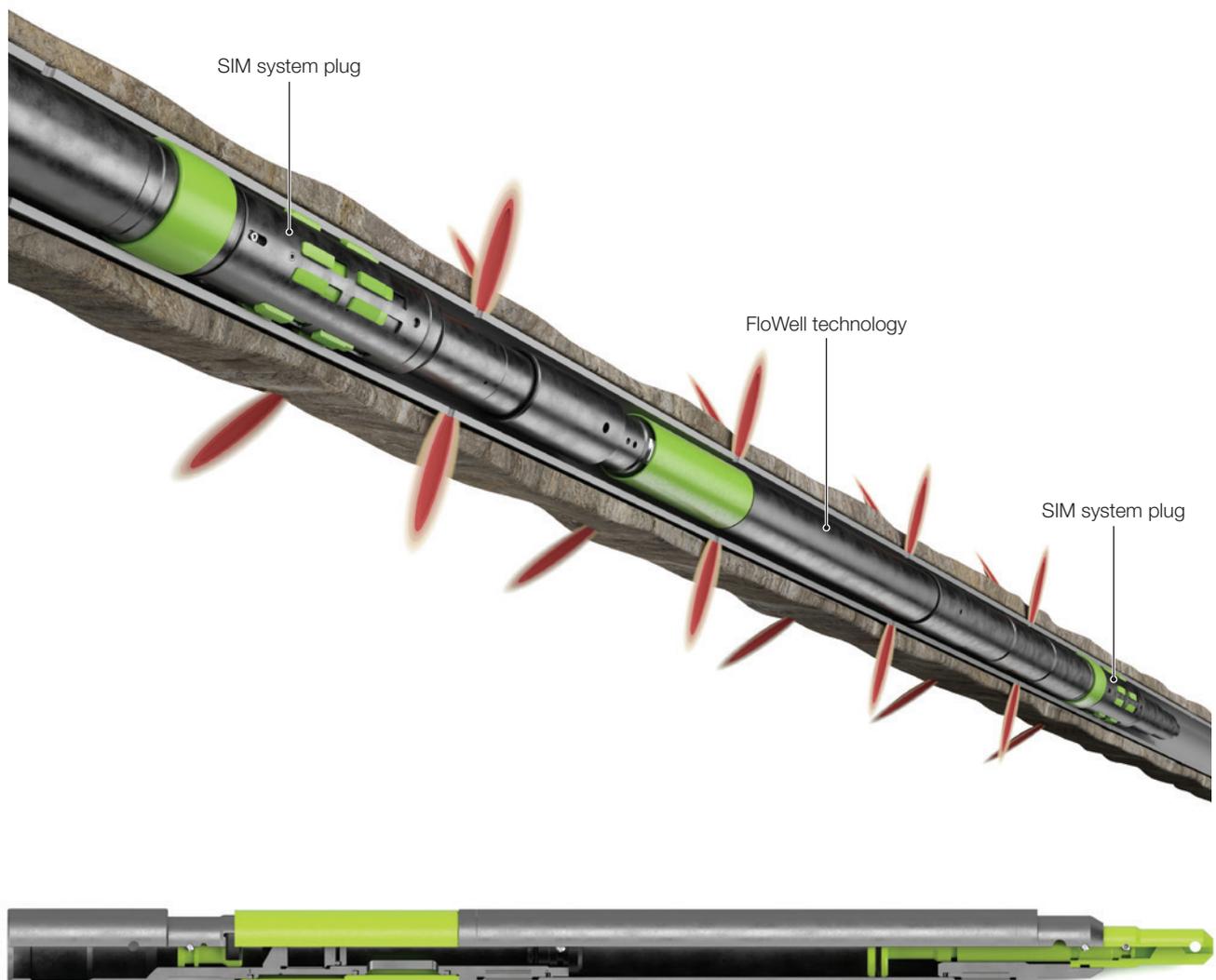
The system uses Peak's unique industry-leading SIM system and SIMplus retrievable bridge plugs to establish the zonal isolation in which FloWell technology is deployed and activated.

The deployment sequence begins by setting a SIM system plug at the lower end of the zone targeted for stimulation. FloWell technology's stimulation tubes are then stacked together in the interval and a second SIM system plug is set at the top of the zone to reliably achieve zonal isolation.

An activation prong is deployed to the depth of the top plug and downward jarring is applied to activate FloWell

technology. On activation, FloWell technology's tubes create a sudden underbalance in the isolated region between the two plugs. This induces a surge flow through perforation tunnels that cleans them to reduce flow restrictions from crushed zone damage, and lessen the skin factor created by fluids during drilling and completion.

The modular design of FloWell technology provides significant deployment flexibility for treating various lengths of the sandface that are reliably isolated with SIM system plugs, to prevent unwanted stimulation of nearby zones.



## About Peak Well Systems

Peak Well Systems, a Schlumberger company, is a leading specialist in the design and manufacture of advanced downhole tools for well intervention. We provide both operators and service companies around the world with an extensive range of innovative downhole products, expert field deployment and aftermarket support. Our aim is to reduce well operating costs and improve well performance for our customers.

Our product portfolio comprises of flow control systems, which are fast becoming the products of choice around the world, and premium well intervention tools for remedial well maintenance.

All Peak products are designed to be **Simple, Safe and Assured.**



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