

## Integrated cased hole

## BENEFITS

- High-pressure rating is suited for deep water
- High-shot density with maximum phasing delivers a high-flow area
- Provides better connectivity with the divergent permeability layers
- Designed for perf/acid system to optimize the acid treatment across the entire interval
- Well productivity is improved due to the low-permeability zone contribution that was not possible with traditional gun systems during stimulation programs
- Reduces risk of well intervention due to increased perforations and cleaner perforation tunnels early in the well completion
- Shot phasing limits stress contrast, which prevents tunnel-to-tunnel stress failures
- Maximized gun size with fishing ability in heavier wall casings

## APPLICATIONS

- Provides an effective perforation solution focused on:
  - Deep water
  - Divergent permeability layers
  - Stimulation completions
  - Natural completions
- Eliminates potential costs associated with stimulation treatments in divergent layers without mechanical segregation techniques

## PERFORATING | GUN SYSTEMS

## 6¾-in. 18-SPF MaxForce® DP system

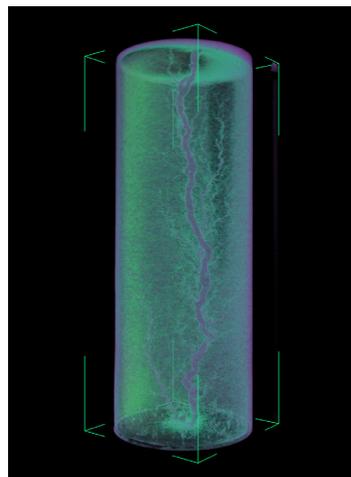
Addressing stimulation difficulty due to divergent permeability layers

### Overview

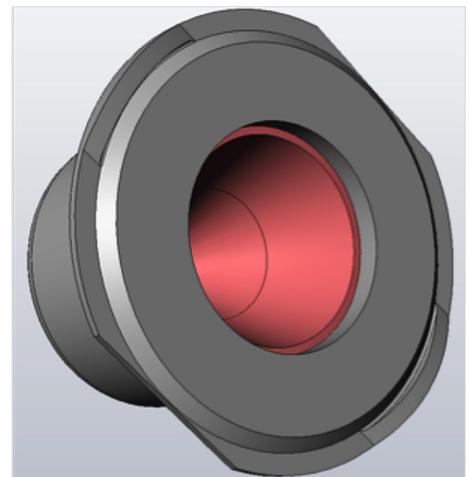
The 6¾-in. 18-SPF MaxForce® Deep-Penetrating (DP) System is designed to address divergent permeability layers. Some layers thief all the acid, leaving the lower permeability zones untreated. Thus, no increased productivity from these zones occurs, and all production comes from the higher permeability zones. Chemical and mechanical diverting techniques have been used, but have been ineffective.

High-shot density of the 6¾-in. 18-SPF MaxForce DP System gains more connectivity with the layered reservoir. The MaxForce DP System addresses the issues of high- and low-permeability layers that traditionally make stimulation effectiveness difficult because of the high-permeability zones thieving the treatment fluids from the low-permeability intervals.

Well productivity is improved due to the low-permeability zone contribution that was incapable of being stimulated with traditional gun systems. Additionally, well intervention may be minimized because of increased perforations and cleaner perforation tunnels early in the well completion.



CT scan of a carbonate core with an acid wormhole.



The 6¾-in. 18-SPF MaxForce DP System was designed to provide a higher flow area from reservoir to wellbore, maximizing the flow capacity provided by the production string.

**6¾-in. 18 SPF MaxForce® DP system**

<b>SYSTEM TEST - API SECTION 1: 9 5/8-IN. 47-LB L-80 CASING</b>	
Flow Area	2.27 sq. in.
Casing Hole Diameter (avg)	.40 in.
Total Penetration (avg.)	37.4 in.
<b>MECHANICALW</b>	
Gun Outside Diameter	6¾ in.
Pressure Rating	25,000 psi
Tensile Rating	814,000 lb
Connections	Standard gun threads (pin x box)
Shots Per Foot	18 SPF 3/Plane
Shot	60°/120°
<b>CHARGE</b>	
330 MaxForce®, HMX, DP Charges	
Explosive Load	33.0 g
<b>ENVIRONMENTAL</b>	
400°F/204°C for 1 Hour	

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