

AfterShock

Engineered to amplify
the power of your Agitator

Decades of engineering experience, extensive field runs, and sensor-based validation led to the development of AfterShock. The system extends agitation beyond the primary activation point, increasing the effective area of influence along the drillstring.

Sensor data shows that while the primary open area responds directly to the Agitator System pulse, residual energy continues for thousands of feet. This energy sustains effective agitation across a longer interval.

AfterShock applies this insight by introducing additional pump-open area at a calculated distance from the Agitator System. This configuration captures residual pulse energy and converts it into additional agitation farther along the string.

When paired with Agitator Rage, the system delivers higher excitation energy to AfterShock, increasing overall agitation performance.



Features and benefits

- Maximum area of agitation
- Virtually no added pressure drop from including the AfterShock
- 100% flow to the bit
- Fish-Through
- Pair Agitator Rage with AfterShock for the most powerful and efficient friction reduction system in the industry

Proven in the field

- Extensive downhole sensor data
- Thousands of field runs
- Applications across multiple basins and well profiles

Sizes

Available in all sizes for hole sections from 6 in. to 9 7/8 in.

AfterShock Use Case in the Permian

Three downhole sensors were deployed in the well, located at the Agitator System, the AfterShock tool, and above the BHA. Sensor data confirmed that the pulse generated by the Agitator System propagated with sufficient strength to activate the AfterShock and extend the zone of agitation. This increased agitation footprint resulted in a 17% improvement in sliding ROP compared to an offset well without the AfterShock configuration.

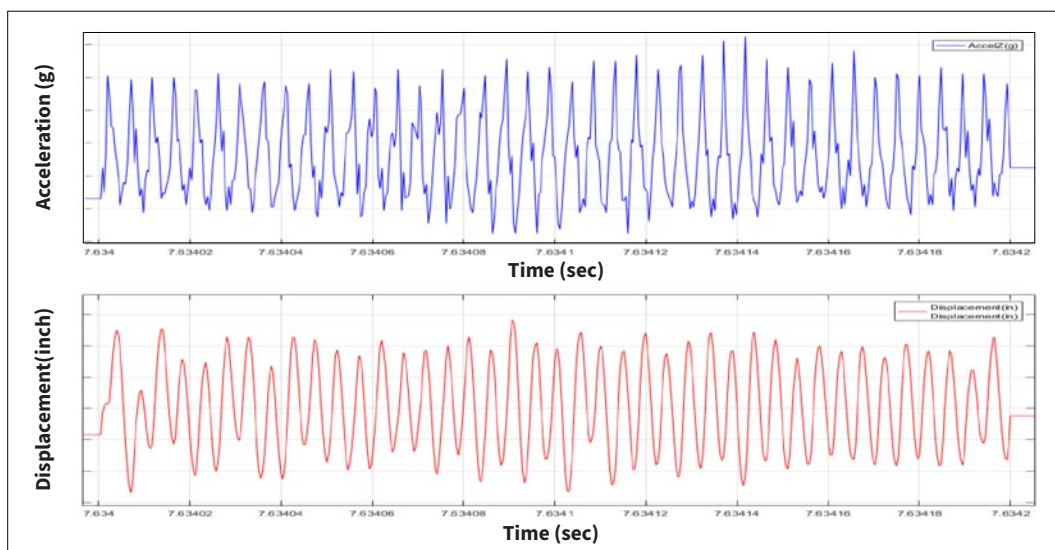


Fig. 1. Sensor data at Agitator System

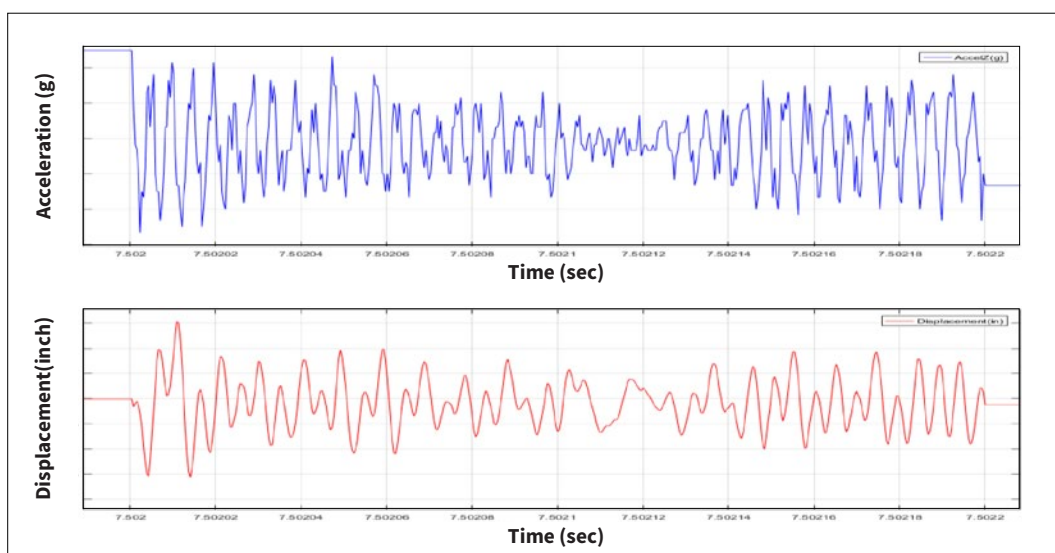


Fig. 2. Sensor data next to the BHA

Downhole Acceleration	Agitation Magnitude	Sensor Placement
1.88 g	100 % acceleration	At Agitator System (3,000 ft above the bit)
1.61 g	85% remaining	At AfterShock (1,450 ft above the bit)
0.69 g	35% remaining	Next to the BHA (160 ft above the bit)