

Perforating
Gun systems

Big Gun™ system

Engineered for high-performance abandonment in large-diameter casing

FEATURES

- Perforates 13 $\frac{3}{8}$ -in. casing in perf-wash-cement P&A wells
- Has a flow area of 11.3 in.²
- Removes 2.5% of casing in 13 $\frac{3}{8}$ -in. casing
- Uses conventional TCP firing heads
- Ships via 1.4D shipping class

BENEFITS

- Ensures optimized perforation performance
- Addresses legacy wells not originally designed for abandonment
- Optimizes perf-wash-cement operations in large casing
- Delivers consistent equal hole diameter (EHD) for improved cement plug placement

Overview

Plug and abandonment (P&A) operations are increasingly critical in today's oilfield landscape. Historically, section milling was the only reliable method for placing a permanent barrier across the wellbore. Now, advanced alternatives—like perforate-wash-cement techniques—offer more efficient solutions.

The Big Gun™ system (9 5/8-in. OD) is engineered for large 13 3/8-in. casing. The system increases flow area and improves shot distribution, enabling successful plug-and-wash methods. It removes 2.5% of 13 3/8-in., 68 ppf P-110 casing and produces an average hole size of 0.92 in., which improves annular fluid displacement and cement plug placement.

Perforate-wash-cement methods feature a combination of explosives, wash fluid jets, and cement stinger in one run, revolutionizing oilfield engineering for barrier placement. To ensure the annular space between the pipe and casing is free from debris and contamination, flow area for washing behind pipe must be increased. With more flow area comes a greater need to place a quality cement plug. Traditional gun systems are not intended for this purpose. The Big Gun system, however, can be used in perforate-wash-cement operations or in free pipe to produce a flow area for the cement plug.



13 $\frac{3}{8}$ -in. casing after perforation.

DIMENSIONS AND RATINGS

Max temperature	350°F (177°C)
Max OD	9 $\frac{5}{8}$ in. (244.6 mm)
Gun body length	16 ft (4.9 m)
Max pressure	7,900 psi (54.5 MPa)
Average hole diameter	0.92 in. (23.4 mm)
Casing loss per foot	2.5%

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