

1¹¹/₁₆-in. Enerjet Gun

Description

The 1¹¹/₁₆-in. Enerjet* gun and accessories have been PEGS verified for operation in liquid or gas at 20,000 psi and 365°F for 1 hr. A PowerJet* charge is also available for this gun.

The PEGS program was created by twelve major oil companies: AGIP, Arco, BP, Chevron, Conoco, Elf, Exxon, Mobil, Pogo, Shell, Texaco and Unocal. These companies specified the standards and procedures for verifying that all equipment used in a perforating system will perform to rated temperature, pressure and time on an ongoing basis.

Major Components for 1¹¹/₁₆-in. Enerjet System

Accessories

- MH-29, 1³/₈-in. monocable, high-temperature, lower head subassembly
- AH-106, 1³/₈-in. to 1¹¹/₁₆-in. monocable adapter
- CCL-AT, 1¹¹/₁₆-in. high-temperature casing collar locator
- EQF-53, 1¹¹/₁₆-in. high-density weight

- MPD-L, 1¹¹/₁₆-in. high-temperature magnetic positioning device

Gun Hardware

- Head with 450°F fluid-to-air connector and gas relief
- 1¹¹/₁₆-in. Enerjet Strip, 4 spf, 0° phasing
- 1¹¹/₁₆-in. Enerjet Strip, 6 spf, 0° phasing
- Bottom nose

Explosives

- 1¹¹/₁₆-in. Enerjet III, HMX shaped charge
- Detonating cord, HMX, 80 gr/ft, HALAR
- Detonator, high-temperature, high-pressure

PEGS Rating

The 1¹¹/₁₆-in. Enerjet Gun is noted at 20,000 psi at 365°F for 1 hr, fluid or gas environment.

Initial Date of Verification

May 10, 1991

Latest API Statistics

Charge	Explosive, type weight (g)	Shots per foot, Phasing (°)	Entrance † hole (in.)	Area open to flow (in. ² /ft.)	Penetration † (in.)	Temperature (°F)	Target strength (psi)	Test date
1 ¹¹ / ₁₆ -in. EJ III	HMX, 8.0	4, 0	0.26	0.21	16.7	365	5167	09-94

† API RP43 shot in 4¹/₂-in., 11.6 lb, L-80 casing

1¹¹/₁₆-in. Enerjet Gun



MH-29

AH-106

CCL-AT

EQF-53

MPD-L

Head with 450°F fluid-to-air connector and gas relief

Enerjet strip assembly

Bottom nose

