HALLIBURTON

WIRELINE AND PERFORATING

175 RockJet™ HMX perforating charge

Reservoir performance optimized shaped charges

FEATURES

- Developed to maximize performance in stressed rock targets—NOT concrete
- Patented charge-securing design to reduce gun debris
- Compatible with multiple gun systems

BENEFITS

- Maximizes penetration into real, stressed reservoir rock
- Increases well productivity and injectivity

APPLICATIONS

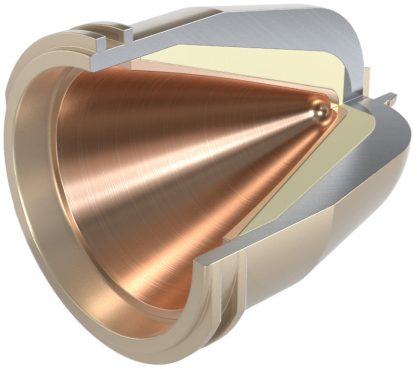
- Natural completion or stimulation wells
- Production and injection
- Any perforating gun conveyance method

Overview

RockJet™ perforating charges provide the deepest penetration in downhole stressed rock to help optimize well performance.

Traditional surface tests performed in concrete targets are not a reliable indicator of downhole charge performance. Inflow models demonstrate that maximum reservoir contact through deep and clean perforating tunnels, extending past the damage zone, is critical to maximize the productivity and injectivity of natural completion wells.

The 175 RockJet™ HMX perforating charge was developed with stressed rock cores for optimized performance in downhole conditions, with the exclusive capabilities of the Advanced Perforating Flow Laboratory at the Jet Research Center. This charge was developed for optimized performance in actual downhole well conditions.



175 RockJet charge performance was confirmed with third party witnessed testing under APIs new RP19B Section 2 protocol.

Compatible gun systems specifications

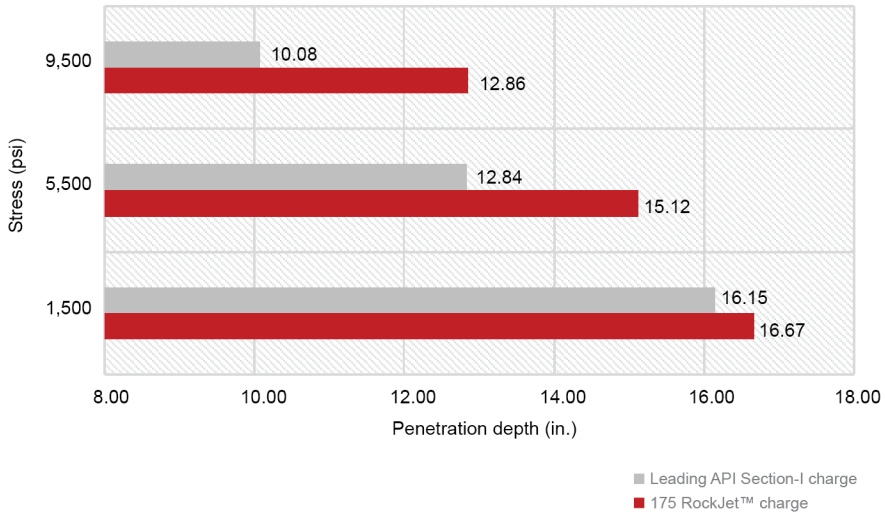
GUN OD (IN.)	SPF	PHASING (°)	PRESSURE RATING (PSI)	TENSILE RATING (LB)	NOMINAL LENGTH (FT)	CHARGE	POST-SHOT SWELL OD (IN.)
2 7/8	6	60, 99	20,000 to 27,000	130,000 to 143,000	4, 8, 11, 16, 22, 28	175 RockJet™ HMX, 17.5 gm SAP No. 103254898	3.07 (fluid)
3 1/8	6	60, 99	18,000 to 25,000	97,000 to 149,000	2, 4, 7, 11, 15, 16, 21, 22		3.380 (fluid) 3.304 (air)
3 1/8 G-force	4	10, 350	20,000	323,700 to 373,000	4, 16, 22		4.869 to 4.941 (fluid)
3 1/8 G-force inclined	4	0, 0 - 180	19,000	148,000	7.8, 15, 22		3.342 (air)
4 1/2	12	30, 150	13,000	274,000	4, 8, 11, 16, 22		4.74 (fluid)
4 5/8	12	30, 150	15,000 to 19,000	284,000 to 377,000	4, 8, 11, 16, 22		4.805 (fluid)
4 3/4	12	30, 150	22,000	516.780	8, 11, 16, 22		4.922 (fluid)

DATA SHEET

175 RockJet™ HMX perforating charge results

Witnessed API Section-2 testing results vs. leading DP charge (38 in. in API Section-I)

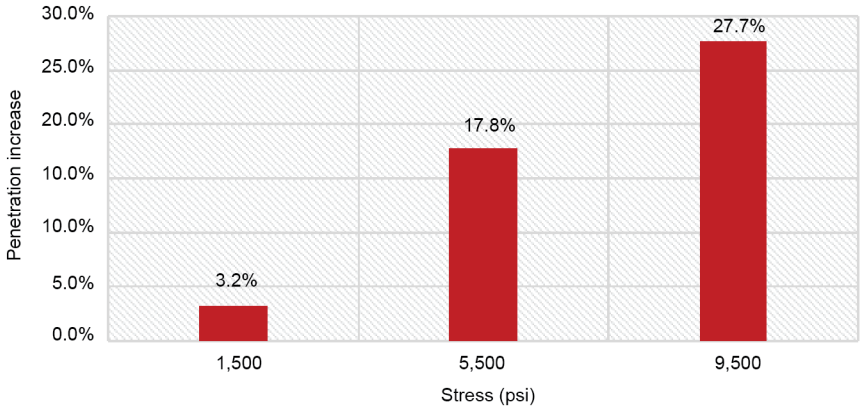
Penetration performance



27.0%

Deeper penetration into stressed rock

Penetration increase vs. leading S1 shaped charge



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