



Lowering Total Cost of Operations Through Higher Perforating Efficiency while simultaneously enhancing safety

Introduction of a novel factory assembled select plug and perf perforating system

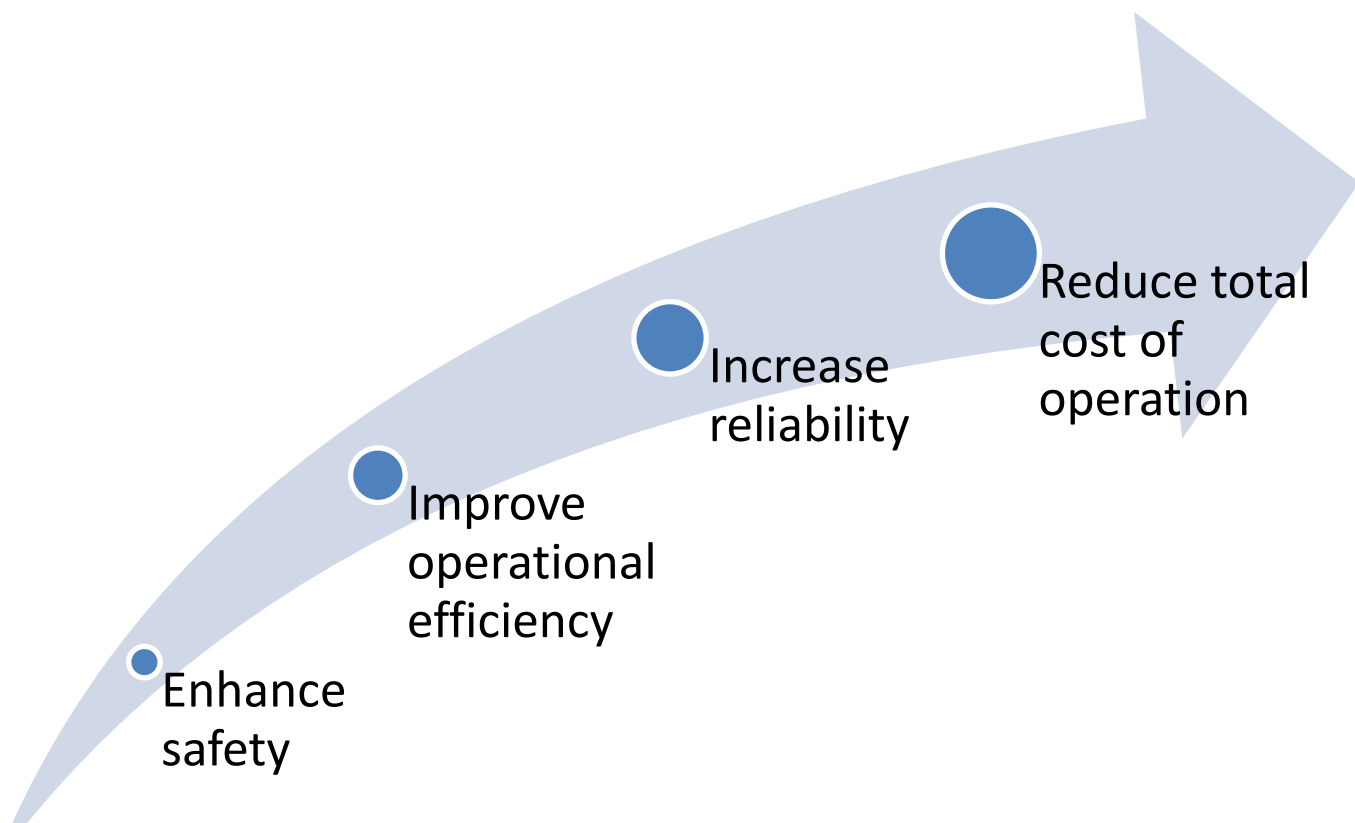
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AGENDA

- Factory Assembled Perforating System
 - System Targets
 - Technology Introduction
- Field Trials
 - Goals
 - Operational Statistics
 - Identified Benefits
- Opportunities for improvement
- Commercialization

FACTORY ASSEMBLED PERFORATING SYSTEM TARGETS



FACTORY ASSEMBLED PERFORATING SYSTEM TARGETS – ENHANCE SAFETY

- True RF, stray current and voltage-safe initiator
- No more gun loading at the wellsite
- No detonating cord cutting and explosives remnants at the wellsite
- Minimum explosives handling and field assembly required wellsite

FACTORY ASSEMBLED PERFORATING SYSTEM TARGETS – IMPROVE OPERATIONAL EFFICIENCY

- Efficient single trip plug setting and perforating with up to
- Does not require any initiator or switch wiring or crimping wellsite – 100% plug and go
- Fully disposable, no servicing – maintenance free
- No software needed for selective perforating and plug setting
- Uninterrupted communication with all detonators and igniters while in the well
- Surface tester for complete gun and setting tool system check available

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