

Single-shot plug and
perf system for ultimate
performance

DS LoneStar™

Ultra-uniform, predictable, and larger diameter entry holes

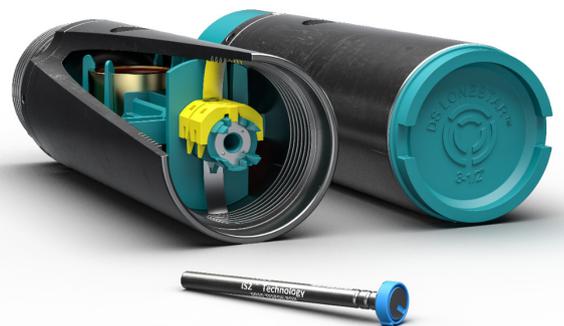
Modern well designs increasingly call for single-shot perforating systems that deliver larger and more uniform entry hole diameters. But with only a single charge, these systems also should be compact, enabling more guns per stage. In addition, users increasingly want to orient their perforating systems so the charges target the preferred fracture plane.

The specialized DS LoneStar™ perforating system addresses each of these objectives. The system is designed specifically for single shot applications and is available in oriented and standard models. It is designed to provide larger and more consistent entry holes, and it delivers significantly higher formation penetration versus conventional guns.

Bigger charges, better performance

DS LoneStar offers over 30% more explosive energy versus standard unconventional perforating guns. It delivers increased formation penetration, and the largest entry hole diameter (EHD) with the lowest size variation. The EHD of the five DS LoneStar frac optimized shaped charges ranges from 0.40" to 0.60" at only 3% deviation.

All of this comes in a compact "unibody" package, eliminating the need for connecting subs. At 9 inches in length, DS LoneStar is the shortest single-shot perforating system in the industry. Of course, being shorter and lighter permits more guns per stage and easier orientation of the perforating string.



Unmatched in explosive net energy, length optimization and entry-hole uniformity

Benefits

- 33% more explosive energy
- Largest entry hold diameter with lowest variation of only 3%
- Deepest formation penetration
- 22% shorter and 10% lighter, like for like DS Infinity™

Bigger charges, better performance

Like all members of DynaEnergetics' Factory-Assembled, Performance-Assured DynaStage (DS) product family, DS LoneStar arrives at the wellsite fully assembled and ready to arm with the wireless IS2™ TF intrinsically safe™ initiating system. The DS LoneStar, and its entire detonation system can be tested at surface, leading to unmatched reliability and peace of mind. And it takes less than a minute to assemble, arm and test each system. DS LoneStar continues to raise the bar for safety, efficiency, reliability and performance. It is the industry's only fully factory-assembled perforating system specifically designed for single-shot plug and perf applications.

There is no comparison. DS LoneStar is **unmatched** in explosive net energy, length optimization, entry-hole uniformity and overall downhole performance.

GUN OD (IN)	PHASING	# SHOTS	CASING ENTRY HOLD DIAMETER (IN)	AREA OPEN TO FLOW (IN ²)	OVERALL LENGTH (IN)
3-1/2"	0° oriented	1	0.40	0.126	9
3-1/2"	0° oriented	1	0.45	0.159	9
3-1/2"	0° oriented	1	0.50	0.196	9
3-1/2"	0° oriented	1	0.55	0.238	9
3-1/2"	0° oriented	1	0.60	0.283	9
3-1/2"	0° non-oriented	1	0.40	0.126	9
3-1/2"	0° non-oriented	1	0.45	0.159	9
3-1/2"	0° non-oriented	1	0.50	0.196	9
3-1/2"	0° non-oriented	1	0.55	0.238	9
3-1/2"	0° non-oriented	1	0.60	0.283	9

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¹Patent Pending