



Longbow
COMPLETION SERVICES

ADVANCED FRAC PLUG TECHNOLOGY FOR MAXIMUM COMPLETION EFFICIENCY

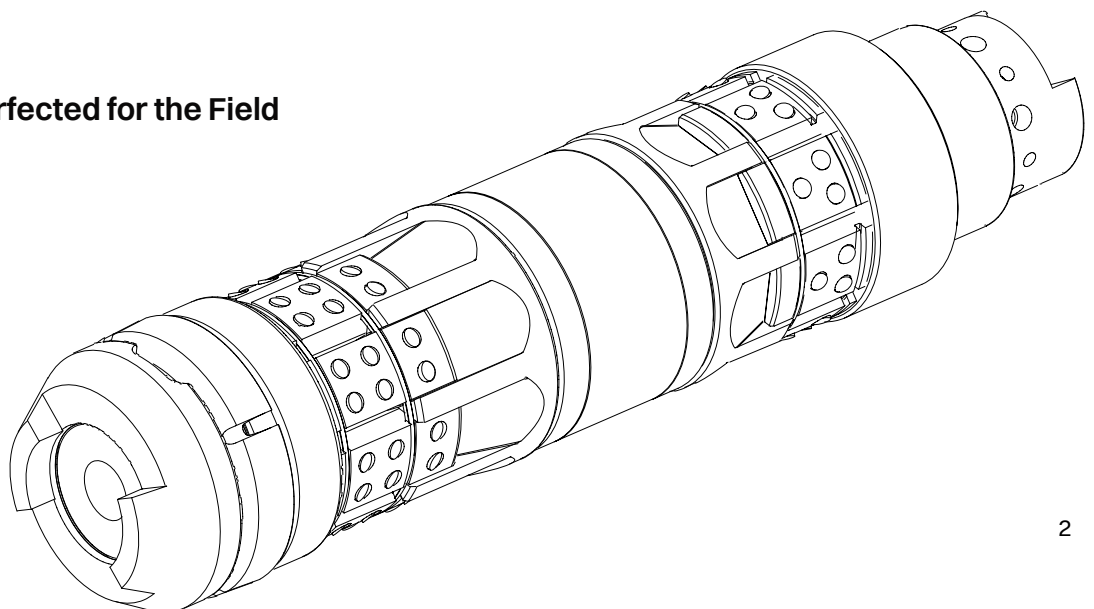
PRODUCT CATALOG



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Designed, Tested and Perfected for the Field





Longbow Completion Services

EST. 2020

PROVIDING EXCELLENCE IN OILFIELD TECHNOLOGY

Longbow was founded by two Army Apache Longbow pilots in 2020 with the goal to bring military precision and real-world engineering to the oilfield. With deep experience in wireline frac operations, our team designs completion tools that streamline operations, reduce risk, and deliver proven field performance.

Drawing on decades of combined wireline, engineering, and technical field experience, our team continues to design solutions that reduce cost, eliminate failure, and improve well performance. We're proud to serve operators who demand tools—and a partner—they can trust in every stage of completion.



DESIGNED IN TEXAS, MANUFACTURED IN MISSOURI

As a US based company, every Longbow component is designed and manufactured in-house through our Missouri-based facility. By keeping production under one roof, we control every detail — from raw materials to final inspection. This vertical integration ensures unmatched precision, faster innovation, and tools that perform exactly as promised when they reach the field.

Pittsburg, Missouri

Midland, Texas

OUR TEAM



Chris Crews

Co-Founder

Former Apache Longbow Pilot with over 11 years of experience in field engineering.



Shawn Witt

Co-Founder

Former Apache Longbow Pilot with deep expertise in CAD, drafting, and technical design.



Piro Shkurti

Lead Engineer

Over 36 years of mechanical engineering experience in the oil and gas sector.

Our Mission

We design and manufacture dependable, fracing components that empower oil and gas operators to complete every job without fail.

SWITCHBLADE

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



OVERVIEW

Intelligent, Testable Ball-Free Isolation with INFIL Technology

Introducing the Switchblade, powered by our patent-pending INFIL-TEST technology designed for testable isolation with built-in dual contingency options. Unlike conventional plugs, the Switchblade enables pressure testing before the frac while maintaining contingency capabilities.

BENEFITS

Engineered to Outperform Conventional Plugs

- INFIL-TEST Tech (patent-pending) pre-frac isolation testing, Eliminates Ball-Drop Risks: INFIL™ Technology provides on-command isolation, removing failure points from traditional ball systems.
- Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
- Reliable, Controlled Mill-Out: Integrated clutch system and composite body ensure clean, consistent removal—typically in under 8 minutes per plug.
- Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
- Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.

TECHNICAL SPECIFICATIONS

Casing Size in.	4.5	5.0	5.5	6.0
Weight lbs.	11.60 - 15.10	17 - 21.4	17 - 23	22.30 - 26
Tool OD in.	3.60	3.90	4.30	4.8
Tool ID in.	1.00	1.00	1.00	1.00
Tool OAL in.	18.10	19.70	18.45	21.27
Max Temperature F	250	250	250	250
Pressure psi	10,000	10,000	10,000	10,000



LITTLEBIRD

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



OVERVIEW

Intelligent, Ball-Free Isolation with INFIL™ Technology

The Little Bird's innovative patent-pending INFIL technology removes the risk associated with "ball in place" misfires and recovers efficiencies lost during ball drop operations. The Little Bird represents a revolution in the fracing industry as the shortest composite plug on the market with a miss fire contingency feature. The Little Bird will provide segment leading savings in time and cost for completions. The days of lost time with costly misruns and ball drops are gone.

BENEFITS

Engineered to Outperform Conventional Plugs

- Eliminates Ball-Drop Risks: INFIL Technology provides on-command isolation, removing failure points from traditional ball systems.
 - Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
 - Reliable, Controlled Mill-Out: Integrated clutch system and composite body ensure clean, consistent removal—typically in under 2-4 minutes per plug.
 - Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
 - Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation.
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.

TECHNICAL SPECIFICATIONS

Casing Size in.	5.5	6.0
Weight lbs.	17 - 23	22.3 - 26
Tool OD in.	4.30	4.8
Tool ID in.	1.00	1.00
Tool OAL in.	13.50	13.44
Max Temperature F	250	250
Pressure psi	10,000	10,000



REAPER MAX

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



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OVERVIEW

Intelligent, Ball-Free Isolation with INFIL Technology

The Reaper MAX delivers next-generation frac plug performance with Longbow's patent-pending INFIL Technology, enabling on-command isolation without ball drops. Its composite design, precision slips, and rapid mill-out capability set a new standard for reliability and efficiency in high-pressure completions.

BENEFITS

Engineered to Outperform Conventional Plugs

- Eliminates Ball-Drop Risks: INFIL Technology provides on-command isolation, removing failure points from traditional ball systems.
- Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
- Reliable, Controlled Mill-Out: Integrated clutch system and composite body ensure clean, consistent removal—typically in under 8 minutes per plug.
- Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
- Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.

TECHNICAL SPECIFICATIONS

Casing Size in.	4.5	5.0	5.5	6.0
Weight lbs.	11.60 - 15.10	17 - 21.4	17 - 23	22.3 - 26
Tool OD in.	3.60	3.90	4.30	4.8
Tool ID in.	1.00	1.00	1.00	1.00
Tool OAL in.	19.10	19.30	19.50	22.73
Max Temperature F	250	250	250	250
Pressure psi	10,000	10,000	10,000	10,000



REAPER MAX HT

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



Longbow
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OVERVIEW

Intelligent, Ball-Free Isolation with INFIL Technology

The Reaper MAX HT delivers next-generation frac plug performance with Longbow's patented INFIL Technology in high temperature wells, enabling on-command isolation without ball drops. Its composite design, precision slips, and rapid mill-out capability set a new standard for reliability and efficiency in high-pressure completions.

BENEFITS

Engineered to Outperform Conventional Plugs

- Eliminates Ball-Drop Risks: INFIL Technology provides on-command isolation, removing failure points from traditional ball systems.
- Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
- Reliable, Controlled Mill-Out: Integrated clutch system and composite body ensure clean, consistent removal—typically in under 8 minutes per plug.
- Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
- Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.

TECHNICAL SPECIFICATIONS

Casing Size in.	4.5	5.0	5.5	6.0	6.625
Weight lbs.	11.60 - 15.10	17 - 21.4	17 - 23	22.3 - 26	20 - 24
Tool OD in.	3.60	3.90	4.38	4.8	5.50
Tool ID in.	1.00	1.00	1.00	1.00	1.00
Tool OAL in.	20.60	19.74	21.50	22.73	23.10
Max Temperature F	350	350	350	250	300
Pressure psi	10,000	10,000	10,000	10,000	5,000



REAPER MAX ST

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



Longbow
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OVERVIEW

Intelligent, Ball-Free Isolation with INFIL Technology

The Reaper MAX ST delivers next-generation frac plug performance with Longbow's patented INFIL Technology in high temperature wells, enabling on-command isolation without ball drops. Its composite design, precision slips, and rapid mill-out capability set a new standard for reliability and efficiency in high-pressure completions.

BENEFITS

Engineered to Outperform Conventional Plugs

- Eliminates Ball-Drop Risks: INFIL Technology provides on-command isolation, removing failure points from traditional ball systems.
- Shear-Thread setting system eliminates the use of shear screws entirely, ensuring a clean wellbore. A clutched adapter kit allows simple installation and reliable removal.
- Significant Time & Fluid Savings: Faster operations with no flow-back or ball-catch recovery, minimizing downtime between stages.
- Reliable, Controlled Mill-Out: Integrated clutch system and composite body ensure clean, consistent removal—typically in under 8 minutes per plug.
- Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
- Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

TECHNICAL SPECIFICATIONS

Casing Size in.	5.5
Weight lbs.	17 - 23
Tool OD in.	4.38
Tool ID in.	1.00
Tool OAL in.	19.63
Max Temperature F	350
Pressure psi	10,000

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.



REAPER MAX BRIDGE PLUG

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



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OVERVIEW

When holding matters...

The Reaper MAX Bridge Plug has been engineered to deliver complete and dependable isolation from surface and below. Our innovative and field-proven slip design coupled with our fully composite build has led to the new industry standard in Bridge Plug performance. The Reaper MAX Bridge Plug has no equal when it comes to well control needs.

BENEFITS

Engineered to Outperform Conventional Bridge Plugs

- 10K Differential Pressure rating from above and below, Suitable for > 10k casing test operations, OAL of <21.5"
- Ultimate reliability and isolation, Segmented slip design improves casing grip to help prevent slipping and allows precise activation, Anti-preset feature to allow for improved run-in speeds
- Reliable, Controlled Mill-Out: Integrated clutch system and composite body ensure clean, consistent removal—typically in under 8 minutes per plug. - Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation.
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.

TECHNICAL SPECIFICATIONS

Casing Size in.	4.0	4.5	5.5	6.0
Weight lbs.	11.6	11.60 - 15.10	17 - 23	22.3 - 26
Tool OD in.	3.13	3.60	4.30	4.8
Tool ID in.	.875	8.75	1.00	1.00
Tool OAL in.	17.40	20.67	22.50	24.10
Max Temperature F	250	250	250	250
Pressure psi (↑↓)	10,000	10,000	12,500	10,000

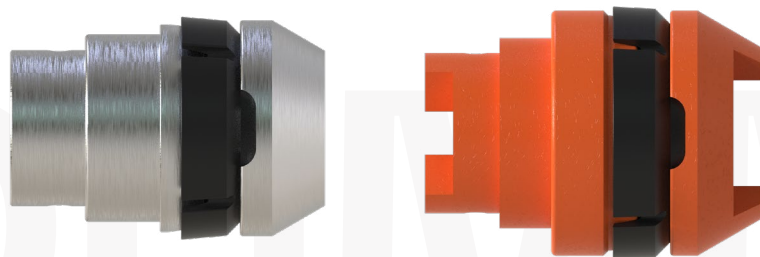


DUMMY

Precision-crafted frac plug that cuts through challenges with unrelenting performance and industrial strength.



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OVERVIEW

Reliable Pump Down for Contingency Situations

The Dummy Frac Plug delivers a dependable, fluid-efficient pump-down solution for contingency or remedial operations. Built on the same high-performance conveyance design used across Longbow's plug lineup, it offers consistent, predictable run-in behavior, with the optional pump-down ring (shown) available to further enhance deployment efficiency.

BENEFITS

Engineered to Outperform Conventional Plugs

- Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
- Compatible dummy plugs are available across our full plug lineup.
- Runs seamlessly on all Longbow provided WLA's.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

APPLICATION

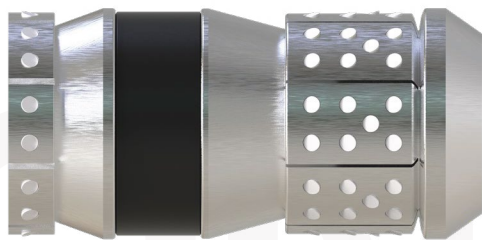
Purpose-Built for Plug-and-Perf Operations

- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.

TECHNICAL SPECIFICATIONS

Casing Size in.	All Sizes
Weight lbs.	All Sizes
Tool OD in.	All Sizes
Tool ID in.	All Sizes
Tool OAL in.	All Sizes
Max Temperature F	All Sizes
Pressure psi	All Sizes





OVERVIEW

Intelligent, Ball-Free Isolation with INFIL Technology

ONS's groundbreaking INFIL Patented Technology, eliminates the risks linked with "ball in place" misfires and restores efficiencies lost during ball drop operations. Continuing the INFIL legacy introduced by our Reaper MAX Frac Plug, HNS's innovation heralds a revolution in the fracing industry, delivering vital savings in both time and cost for completion processes.

BENEFITS

Engineered to Outperform Conventional Plugs

- Eliminates Ball-Drop Risks: INFIL Technology provides on-command isolation, removing failure points from traditional ball systems.
- Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
- Top and Bottom Slips for a better pack off, Compact and robust design, Slim OD allows run in restricted casing ID, Can be set on wireline or coil tubing using conventional setting tool.
- Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
- Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

TECHNICAL SPECIFICATIONS

Casing Size in.	4.5	5.0	5.5
Weight lbs.	11.60 - 15.10	18	17 - 23
Tool OD in.	3.60	3.90	4.30
Tool ID in.	1.00	1.00	1.00
Tool OAL in.	9.40	9.00	9.40
Max Temperature F	250	250	250
Pressure psi	10,000	10,000	10,000

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
- Ideal for extended laterals and multi-stage fracs, maintaining performance consistency across stages.
- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.





OVERVIEW

Intelligent, Ball-Free Isolation with INFIL Technology

HNS's groundbreaking, patented INFIL technology eliminates the risks associated with "ball-in-place" misfires while restoring efficiencies lost during traditional ball drop operations. Building on the INFIL legacy first introduced with the Reaper MAX frac plug, this innovation marks a true step change in completions performance. By combining a robust contingency mechanism with a micro-element design to dramatically reduces wellbore debris—delivering cleaner operations, improved reliability, and greater overall efficiency.

BENEFITS

Engineered to Outperform Conventional Plugs

- Eliminates Ball-Drop Risks: INFIL Technology provides on-command isolation, removing failure points from traditional ball systems.
- Significant Time & Fluid Savings: Faster operations with no flow-back or ballcatch recovery, minimizing downtime between stages.
- Top and Bottom Slips for a better pack off, Compact and robust design, Slim OD allows run in restricted casing ID, Can be set on wireline or coil tubing using conventional setting tool.
- Enhanced Safety & Efficiency: No risk during misfires or gun failures, and fewer intervention requirements at surface.
- Optimized for High-Pressure Operations: 10,000 psi differential pressure rating and fully composite materials ensure performance under extreme conditions.
- Field-Proven Design: Built on Longbow's track record of engineering excellence and continuous innovation in completions technology.

TECHNICAL SPECIFICATIONS

Casing Size in.	4.5	4.5
Weight lbs.	11.60 - 13.50	13.50 - 15.10
Tool OD in.	3.56	3.56
Tool ID in.	1.00	1.00
Tool OAL in.	9.87	9.87
Max Temperature F	250	250
Pressure psi	10,000	10,000

APPLICATION

Purpose-Built for Plug-and-Perf Operations

- Designed for plug-and-perf operations within unconventional completions.
- Provides secure, efficient zone isolation
- Excels in low-pressure wells and challenging environments where traditional plugs risk misfires or debris issues.
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- Integrates seamlessly into modern completion programs, simplifying logistics and reducing operational steps.



MULLIGAN

Delivering dependable, cost-effective performance with fast run-ins, easy drill-outs, and superior reliability in demanding re-frac operations.



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OVERVIEW

The Reliable Re-Frac Solution

The Mulligan Frac Plug is Longbow's answer for operators seeking a rugged, reliable, and economical solution for new and re-fracturing completions. Designed with a fully composite body and advanced slip system, it combines strength, efficiency, and precision in one tool. With fast, effortless mill-outs and consistent 10K pressure performance, the Mulligan ensures reduced downtime, lower operational costs, and dependable results across every stage.

BENEFITS

Reliable Performance. Simplified Operation.

- Effortless Mill-Outs: Typically completed in 6-8 minutes per plug, with no motor required.
- Integrated Clutch System: Prevents rotation during drill-out, ensuring smoother and faster removal.
- Advanced Slip Design: Segmented slips enhance casing grip and activation precision, preventing slippage.
- Anti-Preset Features: Allow for faster run-in speeds and reliable tool setting.
- Fully Composite Construction: Lightweight yet durable for consistent performance and easy removal.
- Cost-Effective Efficiency: Engineered to reduce operational time and total completion costs.

APPLICATION

Where It Performs Best

- Ideal for re-fracturing and multi-stage operations requiring durable, easy-to-remove isolation tools.
- Excels in high-pressure environments up to 10,000 psi where reliability is essential.
- Perfect for operators prioritizing cost-effective completions without compromising performance.
- Designed for efficient deployment and quick turnaround to minimize downtime and maximize productivity.

TECHNICAL SPECIFICATIONS

Casing Size in.	4
Weight lbs.	11.60
Tool OD in.	3.10
Tool ID in.	0.875
Tool OAL in.	16.60
Max Temperature F	250
Pressure psi	10,000





Longbow
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READY TO TRANSFORM YOUR OPERATIONS?

Contact our sales team to discuss how our fracing solutions can optimize your well performance and efficiency.

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