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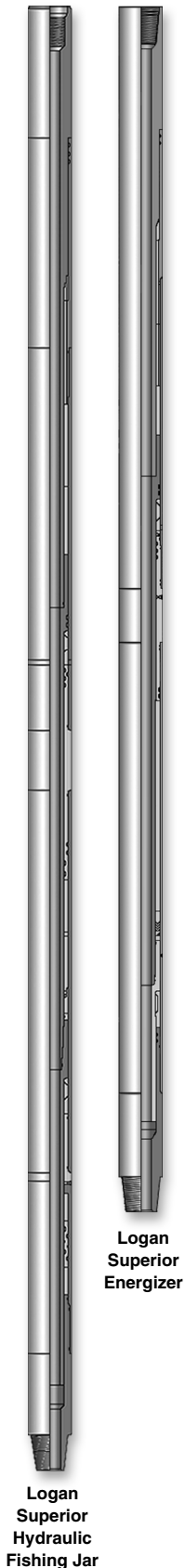
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PRESS RELEASE

Two New Superior Fishing Products from Logan Oil Tools

The **Logan Superior Hydraulic Fishing Jar** is a straight pull, up only, jarring tool that utilizes a special valve section to meter oil from one chamber of the piston to the other chamber to allow controlled jarring action during a stuck fish recovery. The operating chambers are sealed and isolated from each other to prevent contamination of the metering section and the well. During downhole jarring operation, jarring blow is infinitely adjustable without any rig floor adjustments necessary prior to the run. The straight pull load applied by the operator controls the intensity of the jarring blow — a light pull load delivers a light blow, while a heavier pull load delivers a heavier blow. Pull load is simply varied to change the jarring blow. Since oil is not metered during re-cocking, only a very light load (enough to overcome friction) is required. The light re-cocking load allows the operator to hit a rapid series of blows if needed to free a stuck fish. Logan Superior Hydraulic Fishing Jars are hydrostatically pressure balanced and maximum inside diameters permit passage of wireline tools. Its large mandrel design makes it well suited for fishing, milling, and washover operations.

When maximum jarring impact and impulse are needed, particularly in shallow, deviated, or directional holes where acceleration and effectiveness of movement is diminished, a **Logan Superior Energizer** is run in conjunction with a Logan Superior Hydraulic Fishing Jar of corresponding size. The Energizer is essentially a fluid spring that stores energy when strain is applied to the fishing string. It offsets the loss of stretch or drag on the running string and provides a means to store required energy immediately above the drill collars and the Fishing Jar to increase the amount of impact energy. Use of an Energizer allows the use of fewer drill collars than would otherwise be possible — especially when operating in shallow depths where sometimes too many drill collars are used to replace available stretch in the string with mass.



Stored energy is released from the Energizer when strain is removed by the free stroke of the Fishing Jar and the drill collars are accelerated upward until impact is struck. The hydraulic fluid contained in the Fishing Jar cushions much of the jarring shock from the rebounding string after each stroke to protect tools and the working string from damage.

Velocity and relative impact load of a blow is controlled by the amount of stretch in the running string (pull load) and the weight of the drill collars installed above the Fishing Jar. Variable load is controlled by applying a lighter or heavier pull on the working string — a light pull will create light impact and a heavy pull will deliver hard impact at the strike point. The Logan Superior Energizer is completely safe to assemble since no high pressure pre-loading is required.

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About Logan Oil Tools

Logan Oil Tools manufactures a complete line of high quality fishing tools and related products. Based in Houston, Texas, Logan Oil Tools is recognized as a leading source of superior products delivered “stock to dock” for many of the largest fishing and rental tool companies around the world. Decades of solid sales and engineering experience with fishing tools and power swivels enables our staff to understand and meet customer requirements.

For more information about the Logan Superior Hydraulic Fishing Jar, Logan Superior Energizer, or our extensive line of quality fishing tools and related products, please contact the Sales and Service Department at sales@loganoiltools.com, call (281) 219-6613, or visit our website: www.loganoiltools.com.