



Weatherford®

Thru-Tubing Intervention

LSX-N™ Casing Exit System

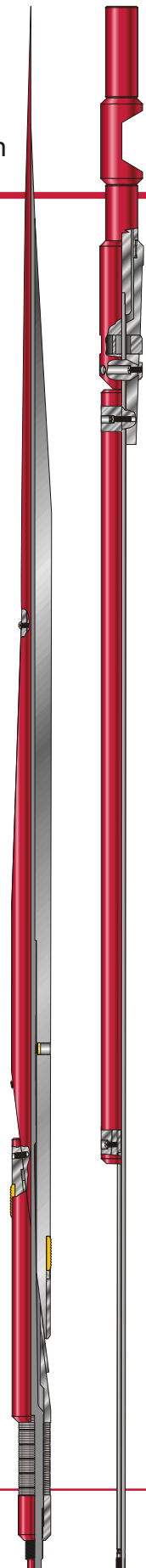
Weatherford's low-side exit neutralizer (*LSX-N*) whipstock is designed for use in a horizontal wellbore and is specially engineered for low-side exits. The whipstock is set and oriented in one trip using coiled tubing (CT), jointed pipe, or e-line. The *LSX-N* whipstock is unsurpassed for window positioning at any azimuth in the wellbore. This system uses a short running assembly to aid in downhole deployment. The *LSX-N* whipstock is an economical solution that provides consistent results.

Applications

- Oriented and set in production tubing with or without restrictions
- Exits in any direction, including on the low side of the wellbore, to achieve the desired drilling curve and reach the target zone
- Run on jointed pipe, CT, or e-line with minimal surface setup
- Rigless deployment using the *LSX-N* whipstock makes this an inexpensive alternative to conventional drilling operations

Features, Advantages and Benefits

- The *LSX-N* whipstock running assembly is shorter than that of the conventional whipstock, which enables the equipment used in pressure-deployed applications to be shorter and reduces the apparent cost and associated risks.
- The *LSX-N* whipstock addresses the most difficult challenge of milling low-side exits, with an opposing slip design and an internal ratchet ring to achieve reliable placement of the whip against the tubing wall.
- The Bellville washer stack retains energy stored after setting the whipstock, which allows further expansion and retains the setting force in case of tubing movement, firmly locking the whipstock in place.
- The Weatherford *LSX-N* whipstock provides single-trip deployment, including orientation.
- The smaller OD provides better flow and often eliminates the need for retrieval, minimizing risk.
- The *LSX-N* whipstock adapts to multiple tubing weights without intervention and provides versatility with the ability to set at any desired azimuth.





LSX-NTM Casing Exit System

Specifications

Tubing/Casing		Maximum Tool OD (in./mm)
Size (in.)	Weight (lb/ft)	
2-7/8	6.4	2.500 63.50
3-1/2	9.2 to 10.2	2.688 68.28
4-1/2	12.6 to 15.1	3.670 93.22
5	15.0 to 18.0	4.063 103.20
5-1/2	14.0 to 17.0	4.700 119.38