

Extended-Reach Tool

Pulsation technology for thru-tubing operations

APPLICATIONS

- Thru-tubing well intervention jobs with coiled tubing (CT) or jointed pipe
- Milling, drilling, fishing, and intervention operations in long deviated and horizontal wells

BENEFITS

- Increases effective reach of CT or jointed pipe in highly deviated and horizontal wellbores by reducing helical and sinusoidal buckling
- Saves operational time by improving effective WOB when milling and cleaning in highly deviated wells
- Eliminates the need for a surface filter when pumping any type of fluid

FEATURES

- Pulsation effect that creates a strong axial pulling force
- Effectiveness across a wide range of flow rates and pressures
- Field-proven power section technology
- High performance with any fluid, including oil-based drilling fluid and nitrogen

The extended-reach tool improves operational efficiency for interventions in long deviated and horizontal wells by breaking metal-to-metal friction between the CT string and the completion. By generating pulsation along the tubing, the tool reduces friction, improves weight transfer to the bit or mill, and reduces the lockup point without lubricants.

In addition to extending the ability to reach total depth, the tool increases WOB during milling and drilling applications, improving operational efficiency.

The extended-reach tool can withstand pressures up to 10,000 psi and accommodate flow rates from 84 galUS/min to as high as 260 galUS/min, depending on the tool size.

Extended-Reach Tool Specifications

Tool size, in	2 $\frac{1}{8}$	3 $\frac{1}{8}$
Length, in	44	46
Mud weight, lbm/galUS	8 to 10	8 to 10
Flow rate, galUS/min	84 to 210	110 to 260
Operating temperature range, degF	150 to 350	150 to 350
Pressure rating, psi	10,000	10,000



Extended-reach tool improves efficiency of thru-tubing intervention operations.