Technology Brief

# NEWTON SYSTEM Reduces Risk, Decreases RIH Time During Coil-frac Applications

*Consistent axial force eliminates annular pumpdown, transfers weight to BHA and advances coil to TD*

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|---|---|
| **Location** | West Texas |
| **Application** | Coil-frac |
| **Well depth (TVD)** | 11,000 ft [3,350 m] |
| **Lateral length** | 8,000 ft [2,450 m] |
| **Sliding sleeves** | 80 |

## CHALLENGE

Reach TD without the need to pump down annulus with frac pumps, which is operationally complex, and could inadvertently shift a frac sleeve.

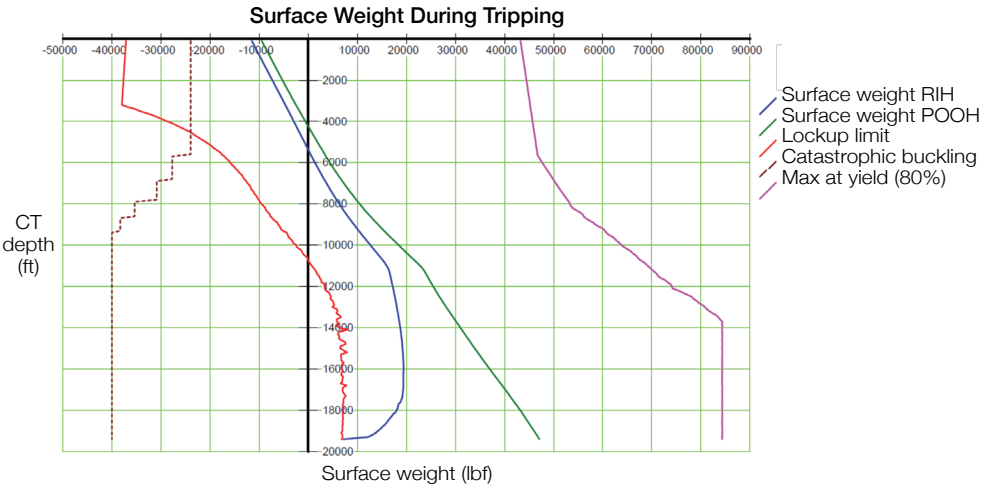
## SOLUTION

Install the Teledrill NEWTON SYSTEM® into the coiled-tubing BHA and utilize its water hammer–style pulsing action to advance the coiled-tubing string deep into the wellbore.

## RESULTS

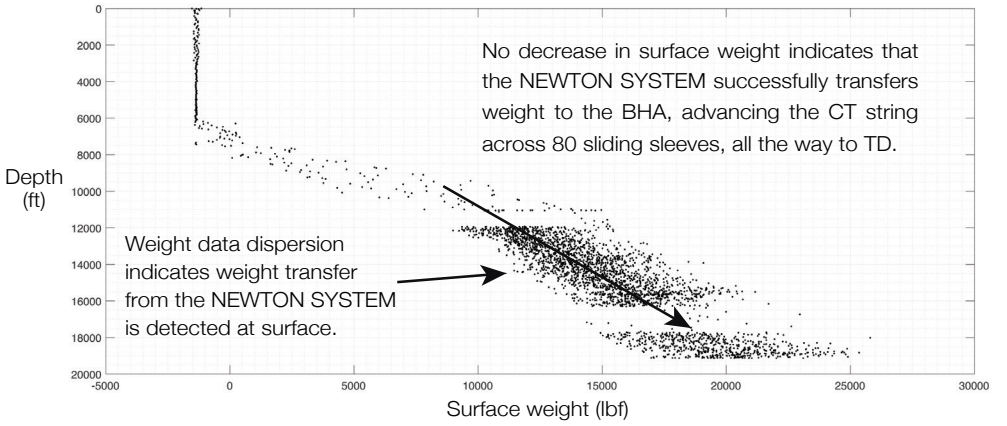
- Successfully reached TD without assistance from frac pumps tied into the annulus.
- Maintained 20,000 lbf on surface weight, indicating transfer of weight to BHA, advancing across 80 sleeves to TD.
- Operator concluded that an even deeper reach could have been achieved with the system.

## Well intervention simulation for coiled tubing




*Prejob modeling shows that RIH surface weight would not be sufficient to convey coil to TD, indicating the need for an extended-reach tool.*

## Coiled-tubing operation with Teledrill NEWTON SYSTEM




*Actual data from West Texas application.*

Teledrill™

With unique knowledge in downhole sensor and pressure pulse technology, Teledrill, Inc., develops and deploys innovative solutions to extend the reach and enhance the efficiency of coiled-tubing operations.