Case Study

Abrasive Perforating

Abrasive Perforating System sets 72 Stage Record
Case Study No. 3204

RESULTS:
Thru Tubing Solutions deployed their patented Abrasive Perforating System to complete three zones for a customer in Oman. The last zone was completed in a single trip utilizing a 3-1/16" NitroTuff Abrasive Perforator to perforate all 72 stages spread across 35.5m with 0.5m spacing between each stage. The perforator, configured with 5 shots at 60° spiral phasing, created a total of 360 perforations in 11 hours. This operation set a TTS record for the number of perforated stages made in a single run.

DETAILS:
Location: Oman
Casing Size: 4-1/2" 17#
Conveyance: 2.00" Coiled Tubing
Operation Depth: 15,776’ (4,809m)
Well Orientation: Vertical
Fluid: 2% KCL
Tools Used: 3.06” Abrasive Perforating Assembly 2.88” High Velocity Wash Nozzle

HIGHLIGHTS
• Alternative to TCP Guns
• Record Setting Job
• 360 Perforations Made
• Single Run Operation