

Expro Excellence

Self orientating perforating gun system maximizes productivity

Well Intervention and Integrity



Objectives and background

- Expro's customer had a need to perforate their unconventional horizontal wells in the 0° vertical plane, to improve frac performance and to maximize production
- Gun systems available locally could not meet the desired shot density and toolstring length requirements. The customer wanted to have a system that could run 10 guns per stage, with each gun having 2 shots 6 inch spaced with 0° phasing



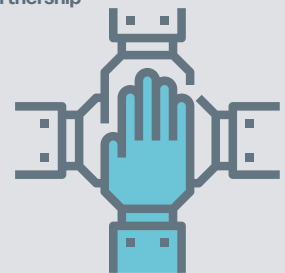
Expro Excellence

- Expro have been performing pump down plug and perforation operations in Argentina since 2017
- The Expro Argentina team proposed a new self orientating gun system: gravity assisted, roller bearing loading tubes with scalloped gun carriers
- The new gun system was tested in two wells, as part of which a Multi-finger Imaging Tool (MIT) was conveyed by tractor to verify shot orientation. The MIT survey confirmed 18 out of 20 guns were shot between 330° and 30°. This met the customer's acceptance criteria

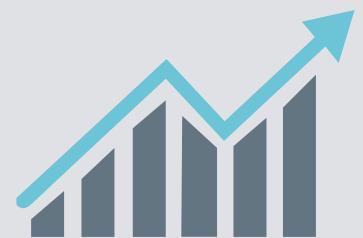
Value to the client

- Our customer now has a solution to successfully perforate their horizontal wells in the 0° vertical plane, to improve frac performance and to maximize production
- Our customer has also now deployed 248 oriented perforation stages in subsequent well intervention operations
- This solution has also enabled the customer to recover a well that was mistakenly drilled below the targeted shale pay-zone. By deploying the orientated gun system, the customer was able to perforate and frac up into the pay zone and subsequently produce the well

Partnership



Increased productivity



Contact

For further information please contact:
wellintervention@expro.com
 or visit
expro.com/wellintervention