

/ Expro Excellence TCP

Expro introduces lift clamp reducing time and improving safety in deploying record >5,000 ft TCP gun length in Alaska



Objectives

• Major operator in Alaska required >5,000 ft of TCP guns – in 20 ft single lengths to be run in the well, taking >24 hours to assemble during deployment

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- Expro's teams value-engineered each step of the assembly process
- The team proactively identified duplication of steps, which led to a redesign of the lifting equipment being used
- The combined clamp became the primary lifting mechanism, therefore required load-carrying ability to support the entire string weight during assembly and deployment – Expro designed it to carry sufficient load, while maintaining the profiles of the current safety plate and lift sub to fit commercial equipment
- By combining the safety plate with the lift sub, the number of handling steps was reduced when assembling and deploying into the hole
- Expro's coordinated approach to rapid deployment expedited engineering design, supply chain, manufacturing and logistics for operations to complete the final field test

Value to client

- Opportunities for improvement were identified and implemented by Expro personnel
- · Removed unnecessary duplication of steps saved time and money
- · Rapid design and development of a combination lift sub-safety plate
- Reduced risk to personnel: less fatigue due attributed to shorter working hours; minimised potential for slips/trips/falls moving equipment up and down the rig floor; reduced risk for ergonomic issues from repetitive motion
- Saved 13 hours of rig time, estimated at \$25,000 (USD)





A major advantage of horizontal wells compared to vertical ones is that the wellbore stays positioned laterally within the producing formation, allowing oil or gas to flow from the entire contact area, not just the short vertical intersect with the producing formation. One method of completion involves positioning casing across the lateral section, cementing in place to prohibit flow of any fluids, and perforating with TCP guns at selected premium zones within.

Many horizontal well laterals now exceed 5,000 ft and deploying a continuous length of TCP guns on tubing, as preferred by many operators, takes several hours. In turn, this creates safety risks and high costs for equipment and personnel.

and rapid deployment of 5,000+ ft of guns an Expro TCP gun length record!

Compared to the

first well, the client

saved 13 hours of

rig time in assembly

Contact

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