Expro Excellence

Fully automated Cement Head allowed for increased circulation & displacement rates through the top drive, improved operational efficiency and red zone management

Well Construction | Cementing Technologies

Objectives and background

- The customer was interested in reducing Red Zone exposure for their personnel

- The customer was experiencing Inefficiencies due to planned shutdowns, restricted circulation and displacement rates

- This resulted in a requirement to rig down casing running equipment prior to cement job

- Enhanced efficiency in transition from casing running to cementing operations while keeping the Wellbore dynamic and displacing through the top drive while connected to the Cement Head

Expro Excellence

- Expro's Blackhawk® Gen X Wireless Cement Head with Skyhook® eliminated red zone exposure for personnel throughout the cement job

- Our Blackhawk® Gen X Cement Head allowed the client to circulate and condition the wellbore with rig pumps @ 12bpm prior to cement job and displaced cement at 13bpm both through the top drive.

- Our technology allowed for a seamless rig up operation with our Blackhawk® Gen X handled as final casing joint

Value to the client

- The operation proved that the operator was able to achieve their primary cement job while keeping personnel out of the red zone and eliminating all man-riding operations; safeguarding the rig personnel against increased risk during the entire course of the operations

- Increased circulation and displacement rates through the top drive were achieved, creating better mud removal and saving valuable rig time

- The customer was able to quantifiably prove that fully automated cement heads allowed for reduced wellbore fluid static time and that circulation could begin immediately after casing is on depth

- The hanger was able to be landed out immediately upon completion of the cement job, without the requirement to first remove a conventional cement head, as the assembly was connected to the top drive allowing for manipulation of the casing string

Safety

Reduction of rig time