

## TRACTOR CONVEYANCE

# PowerTrac

Country: Norway  
Year: 2018  
Technologies: E-line ● PowerTrac 318

MAKING INTERVENTION  
**SMARTER**

Innovative e-line solution provides time, risk and cost savings on straddle deployment operation.

- Straddle assembly deployed with 30% less runs in hole
- Approximately 2 days of rig time savings delivered

## CHALLENGE

When preparing a multi scope coiled tubing intervention campaign which included straddle packer deployment, the client challenged the service suppliers to develop a solution that would deliver efficiencies to the overall operation. As it stood, the conventional coiled tubing straddle deployment approach would need 9 runs to install the required 100m straddle assembly as determined by the rig up height availability associated with the coiled tubing rig up.

## SOLUTION

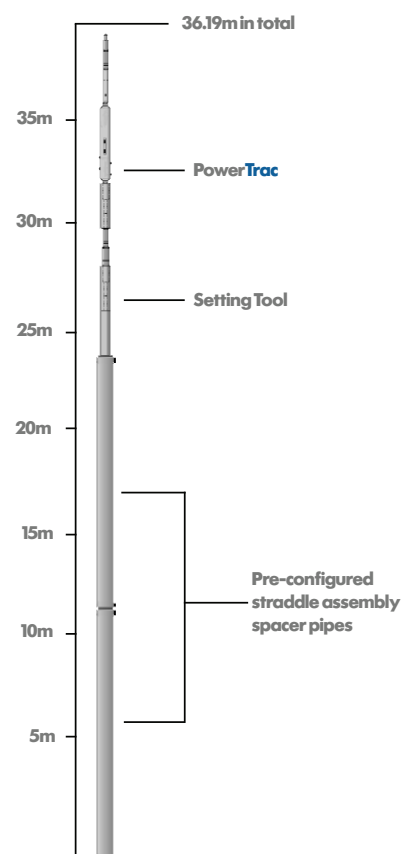
In collaboration with the straddle packer supplier, the possibility of running and installing the straddle assembly via an electric line deployed option was evaluated. In conclusion, Altus Intervention proposed an innovative e-line deployed solution utilizing 7/16" cable and a **PowerTrac** 318 tractor to provide the required force to sting in the various straddle components and spacer pipes at the target well depth. Furthermore, the tractor's real-time tension/compression readings would be used to ensure precise and controlled in-well assembly of the straddle packer elements and spacer pipes as well as to provide a precise measurement of the 1000 lbs over-pull applied at working depth to verify the secure latch of these components.

Deploying on e-line also provided more rig up height which enabled some surface assembly of spacer pipe sections, which would lead to fewer runs in hole to complete the full straddle deployment when compared to coiled tubing. As this was the first time such a technique was to be used, thorough pre job tests and simulations were carried out to optimise the deployment tool string design and to verify that a 36 metre tool string assembly could traverse the well trajectory.

## RESULTS

The wireline pressure control equipment was rigged up above the coiled tubing quick latch on the rig floor, minimizing the change-over to e-line for the straddle deployment phase of the intervention campaign. The e-line deployment of the 100m straddle assembly components was completed in only 6 runs compared to the 9 runs required by coiled tubing, resulting in a time savings of almost 2 days. In addition, during the e-line deployment of the straddle packer assembly the coiled tubing crew were working in parallel preparing the subsequent coiled tubing job, hence providing further cost savings and efficiency gains for the client.

E-line tool string configuration for straddle assembly deployment



*"Altus Intervention stepped up to the challenge of providing an innovative e-line solution which reduced the number of runs for the planned straddle operation. We were impressed with the team's efficient delivery on this project.  
Thank you for a well-done job!"*

Engineer, Well Operations Interventions  
Major NCS Operator