CASE STUDY

ALTUS Intervention

MAKING INTERVENTION SMARTER

TRACTOR CONVEYANCE

Instrumented Tractor executes multi-run straddle deployment in deep water Malaysia

Country: Malaysia
Year: 2019
Technologies: **PowerTrac** 318

PowerTrac tractor with real time tension/compression data successfully deploys straddle assembly in deviated wellbore for gas shut-off intervention operation

- 6 run e-line deployment operation
- Total of 180ft of straddle assembly deployed

CHALLENGE

A client had shut in one of their deep-water wells as its gas/oil ratio (GOR) was too high for the surface facilities to handle. Data from a production log carried out in 2018 determined that a 180-foot straddle packer assembly was needed to shut off the high gas influx interval.

SOLUTION

A cost-effective remedial intervention was proposed, setting the straddle by a multi-run e-line deployment. The well trajectory was highly deviated in parts; hence a tractor would be required to convey the straddle sections to their target setting depth. The instrumented **PowerTrac** 318 Tractor from Altus Intervention was selected for the operation, both to convey the multiple straddle sections to their specified well depth, and to assist in the in-well assembly of the straddle spacer components.

The instrumentation would provide real-time tension/compression data during the initial dummy run and for all subsequent straddle section deployment runs, data that would be particularly valuable during in-well assembly latching. The tractor itself would also be activated to assist with the assembly latching sequence if required. Real-time controlled release subs were incorporated in the string both above and below the tractor to assist with string recovery if a stuck assembly situation were to occur.

RESULTS

Due to e-line cable strength and rig up height limitations, the straddle, comprised of lower and upper packer and spacer assemblies, needed a total of six deployment runs to fully install. A thorough SIT (system integration test) was done onshore prior to mobilization to the wellsite. During the execution, a total of ~4500 feet of tractoring was required, conveying the multiple straddle and setting tool assemblies across the highly deviated sections of the well.

Tractor activation to assist with assembly latching however was not required. The operation was successfully executed, with excellent coordination between all the service companies involved – namely the e-line, straddle and tractor crew. Upon completion of the job the well was put back on line.

Tractor – Straddle Packer Assemblies deployment toolstrings