

THRU-TUBING SYSTEMS [TTS]**RIGLESS / THRU-TUBING GRAVEL PACK APPLICATION SUCCESSFULLY REVIVES SHUT IN WELLS, PRODUCES SAND-FREE PRODUCTION****Challenge**

The issue of sand production in the field located in south offshore Myanmar was reported by an operator. To solve the problem, several sand control techniques had been implemented in past. However, over time those technique had not been able to achieve sand-free production and required choking down the production. Two (2) of 3-1/2" tubing monobore gas producer wells were recently shut-in due to filled sand and alternative technique was needed to remedy sand control and also to compare the effectiveness of alternative techniques with previous approaches.

Solution

TTS analyzed the objectives of operator and determined customized TTGP Vent Screen System for 3-1/2 IN Monobore Well Completion.

Prior beginning of TTGP campaign, TTS team remain involved in supporting client's decision-making process on some important well parameters and well preparation to ensure optimum performance.

Parameters which are relevant include:

- Perforation / Re-Perforation for well
- Gravel and Screen Selection.
- Particle-size distribution analysis

TTGP campaign was split into two phases: Equipment Pre-Installation and Gravel Pack treatment.

First phase is the consecutive installation of sump packer, screen and other BHA component for 3 wells consecutively.

Later on, the second phase was performed to deploy gravel using pump and place method by coil tubing.

The system was deployed on slickline.

Pump and Place technique was used to place gravel pack proppant, where proppant is transported into well using Coil Tubing.

An additional was made to ensure sufficient gravel is in place before vent plug is removed and top isolation packer installed and well was then ready for production. Positive indication of screen out was achieved in all installations.

The operation to install the TTGP was completed in 3 days for each well. Average gravel displacement in each well was recorded in 3 days.

No health, safety, or environmental incidents incurred due the operation.

Results

Thru-Tubing Systems installed a TTGP that resulted in sand-free and stable production.

After the installation of TTGP well was reported to produce at a rate of 12 mmscf/d.

Eliminated time and expense for further sand cleanout operations.



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