

## Thru Tubing Systems Innovative Solutions

### Successful Thru Tubing Gravel Pack (TTGP)

### Installations Utilizing a Standalone Slick Wireline Well Intervention, Offshore Gulf of Mexico

#### Problem

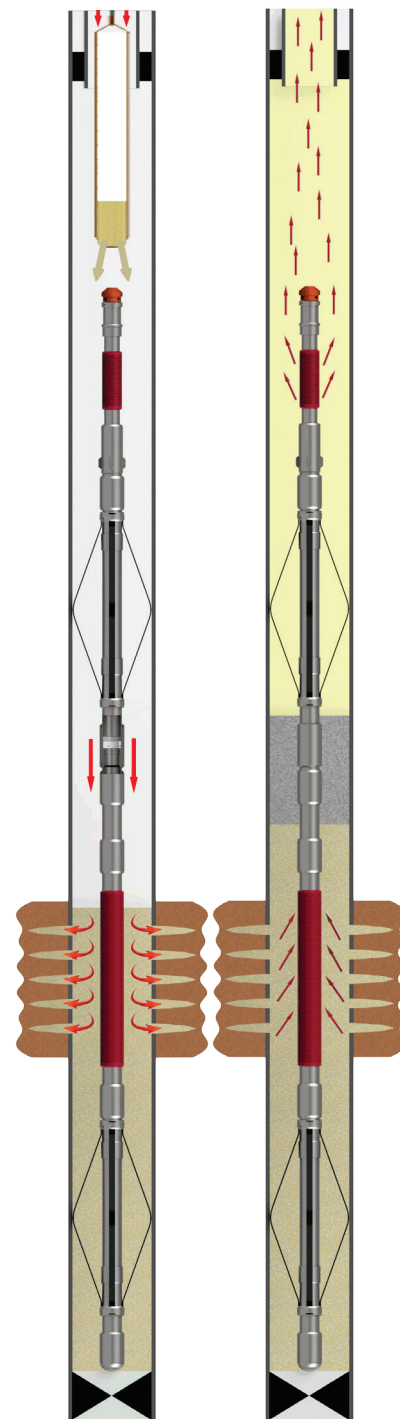
A Gulf of Mexico operator was planning a wireline plug back operation on an existing oil well with 2 7/8" production tubing and 7" casing. In this operation the current producing zone located below the end of the production tubing was to be abandoned utilizing a TTS designed thru tubing bridge plug (TTBP) and wireline dump bailed cement. Following the plug back operation a new zone up hole was to be perforated for production. Due to field history and related info, sand production was anticipated from the new zone. Economics of the plug back recompletion operation did not support the use of coil tubing or other work strings during the intervention which would normally be required for an install of a TTGP or other sand control system thus jeopardizing the re-completion success.

#### Solution

The operator contacted Thru Tubing Systems for a solution to the anticipated sand production problem. TTS's team of specialist evaluated the operator's goals and cost constraints and proposed a unique approach for the well completion. The solution included a suite to purpose TTGP system specifically designed to be installed during a standalone slick wireline well intervention. The TTS team, working along with a contracted slick wireline provider, designed the entire plug back and recomplete operations which included; install of a TTS TTBP (Series 9306 Spiral Bridge Plug Size 2.19" x 7"), slick wireline dumping bailing of a cement plug on top of the TTBP utilizing a TTS designed Non-explosive slick line bailer system and High Shear Bond Cement, perforating of the new zone and the installation of a TTS designed TTGP system across the new zone. The entire operation was accomplished utilizing a standalone slick wireline intervention in one weeks' time. The specialized TTGP system utilized several TTS developed technologies including; TTS's Wireline Screen Deployment Systems, TTS's "Pump and Place" wireline gravel pack proppant placement techniques and TTS's Vent Screen with Cement Cap Isolation TTGP system (see TTS website or contact a TTS representative for info on each system). The TTS Pump and Place TTGP system includes a unique proppant placement system that utilizes a specialized slickline bailer/proppant carrying system to transport gravel pack proppant into the well. As the bailer/proppant carrying tool is positioned just above the previously installed TTGP bottom hole assembly (BHA), fluid pumping into the well provided by a surface pumping unit is commenced. The lower end of proppant carrying tool assembly is then open and proppant is dumped into the fluid stream and carried into the screen casing annulus and perforations tunnels, thus creating the gravel pack.

#### Results

The operation was completed under budget and the well-produced over 350 BOPD sand free. Over the next (3) years an additional 15 wells were completed successfully in the same manner for the same operator. As a result, all of wells remained on production for several years extending well and field life as well as increasing hydrocarbon recoverability and profitability. TTS has also utilized the same systems for other operators with comparable/repeatable results.



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