

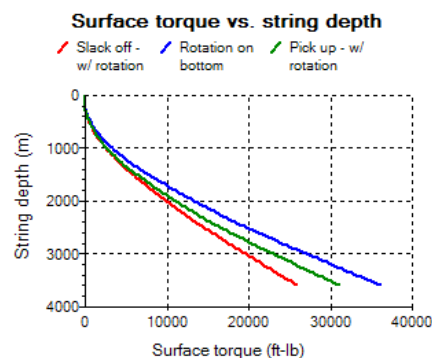
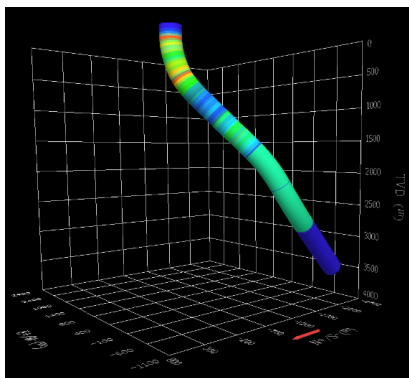
DOWNHOLE  
PRODUCTS

## SPIR-O-LIZER® 9 5/8" X 12 1/4" (OD: 11 7/8") RUN WITH DHP PEN-O-TRATOR®

**CHALLENGE:** A Vietnamese operator had been having difficulties getting his 12 1/4" sections cased for a development project in the Cullong Basin, swelling formations had resulted in multiple stuck pipe situations while running the 9 5/8" casing. The majority of the wells in the development require a 3,500m+ 9 5/8" casing string with a challenging 1,500m openhole section to negotiate.

**SOLUTION:** Downhole Products were supplied well information to allow computer simulations to be run to better understand the challenge. It became clear early on that the ability to rotate the string within the connection torque parameters was key to being able to combat the sticking seen on previous wells. The Spir-O-Lizer zinc alloy solid blade centralizer was selected to be run in tandem with the Pen-O-Trator® reamer shoe to allow for string rotation, if required, during the 9 5/8" casing run

**PERFORMANCE:** The 9 5/8" casing was centralized at 1 x Spir-O-Lizer per joint over the openhole section (125 units total). During the run to TD, rotation was required to pass a known trouble spot, something they had been unable to do previously as the steel centralizers they had been running had generated too much friction to allow for rotation without over torquing the casing connections. The casing was successfully run to TD.



For further information on this tool and proposed applications, please contact your local DHP representative. Specifications may be liable to change without prior notice.