

Service company leverages DHI Technology Development Contract to quickly expand technology portfolio

Client now successfully participates in previously inaccessible business areas

Challenge

A global service company needed to expand its technology portfolio in order to participate in adjacent business areas and compete for contracts they were previously unable to seek.

Solution

The company engaged Downhole Innovations (DHI) under a Technology Development Contract. DHI developed several design concepts and provided patent mapping services to insure that the technology did not conflict with existing intellectual property. After a complete engineering design review with the client to select the most viable design concept, DHI performed full engineering and design of the system, a liner hanger system for a shale-frac well.

This project included four key components: the liner hanger, with torque-in capability; a running tool; a polished bore receptacle for sealing the production tubing; and the locator seal assembly for landing the production string. After completing the design, DHI manufactured full-scale prototype tools for testing. After testing, DHI manufactured the finished production tools.

DHI performed and qualified the liner hanger system to full ISO 14310, which ensured that all components of the system performed to the maximum pressure and temperature rating of the operational envelope.

Results

Upon completion of the project, the full design and technology package was handed over to the client. The client is now competing in previously inaccessible markets.



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