

# Industry first deployment of fiber-optic and electric wet connect system in ultra-deepwater subsea well

## CHALLENGES

Operating in one of the region's deepest offshore fields (1822m water depth), our customer was looking for a way to gain deeper insight into reservoir performance.

Operating from a drill ship in ultra-deep water, the project faced several challenges including limited access to maritized fiber optic interrogators, and potential optical budget constraints due to well distance from host platform.

The objective was to deploy both electrical and fiber-optic monitoring systems in the upper and lower completion while maintaining the ability to perform an open-hole gravel pack (OHGP).



Optimize well performance with real-time reservoir insights with SureCONNECT FE.

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## SOLUTION

The SureCONNECT™ FE system was selected for its ability to integrate real-time fiber optic monitoring, intelligent completions and advanced electronics in two-trip completions, enabling communication between the upper and lower completions.

Supporting technologies included the SureVIEW CoreBRIGHT EBF (Enhanced Backscatter Fiber), SureSENS QPT ELITE electronic Well Monitoring System, Feedthrough Premier Production Packer, and SC-XP Select Gravel Pack system.

## RESULTS

- Deployed the SureCONNECT FE system successfully in an ultra-deepwater subsea well
- Enabled real-time fiber optic DAS/DTS (Distributed Acoustic Sensing / Distributed Temperature Sensing) and electronic P/T (pressure/temperature) monitoring and flow profiling at the sand face without intervention
- Made future workovers possible without retrieving the lower completion, reducing operational downtime and cost
- Achieved an industry first by deploying a combined fiber-optic and electric downhole wet connect system in an ultra-deepwater subsea environment
- Success was achieved due to multidisciplinary and experienced team, robust design and planning, extensive qualification testing, and close working partnership with the customer