Middle East Downhole Temperature Measurement Fiber Optic Cable Splicing

Distributed Temperature Sensing (DTS) system using optical fiber has been deployed for downhole monitoring over two-decades. Several technological advancements led to a wide ...

The Weatherford fiber optic downhole monitoring system provided real-time reservoir pressure and temperature monitoring in a high-vibration environment offshore.

Explore how fiber optic sensing is transforming downhole monitoring for safer, more efficient oil and gas operations.

Monitoring systems include custom fiber optic cables suitable for any downhole environment; along with cable protection and a variety of temporary and permanent surface data acquisition systems that ...

Together with the cable, high-reliability optical connectors and cable fusion splicing techniques have also been developed for long-term survival in harsh downhole environments.

Utilizing Multi-mode Fiber Optic cables, Distributed Temperature Sensing (DTS) provides quality downhole temperature data and is applicable in a wide variety of applications.

A Pressure and temperature (P& T) monitoring system based on fiber Bragg grating (FBG) and extrinsic Fabry-Perot interferometer (EFPI) for downhole application is designed and tested.

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One optical fiber provides temperature measurements every 0.5 m [about 1.6 ft] along its length, producing a profile of temperature effects along the production string and--when applicable--across ...

Our proven fiber optics technologies also support point measurement pressure/temperature gauges to monitor downhole pressure and temperature changes for ESP monitoring and sub-cool optimization.

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