

Denmark Downhole Temperature Measurement Fiber Optic Cable Splicing

Improve reservoir understanding by combining a fiber-optic line and an electrical conductor in one permanent downhole cable. Enhance production management with reservoir surveillance in wells up ...

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 ...

For DPTS, we use the strain response to measure fluid pressure via a diaphragm transducer called SmartPort, a permanent downhole gauge (PDHG). Multiple SmartPorts are connected on a 1/4" ...

In this study, fiber optic Bragg grating (FBG) measurement technology is utilized applied in an attempt to replace more expensive electronic sensors and to obtain more accurate downhole ...

It provides many benefits, such as the ability to perform different measurement types (e.g., temperature, acoustic, strain) using a single cable with multiple fibers. Additionally, it enables simultaneous ...

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

Downhole fiber optics provide the operator the ability to cost effectively measure distributed acoustics and temperature across an entire well bore.

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

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Our review confirms that the application of DTS has significant advantages over discrete point temperature measurements, particularly in deep wells, and highlights the potential for further ...

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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