Application of Swiss High-Temperature Logging Optical Cable

Overview

Suitable for oil wells, gas wells, coal mines or under high temperature conditions. The cables marked with Dry; They are a series of cables in which the typical water blocking the intermediate tubes (gelatin, water swelling tape or powder) is replaced with a solid foamed. Continuous temperature-depth logs, especially when recorded in boreholes under thermal equilibrium conditions, provide detailed information of the subsurface thermal structure, which for example, is necessary for reliable heat-flow density determinations and rock thermal properties. Abstract—Distributed temperature sensors (DTS) measure tem-peratures by means of optical fibers. Initiated in the 1980s, DTS systems have undergone sig-nificant improvements in the technology. • To show that DFOS data can conventional production logging is not possible. DTS is a well-established tool for quantitative production profiling. DTS thermal inversion performed to allocate. Paper presented at the SPE/ICoTA Well Intervention Conference and Exhibition, The Woodlands, Texas, USA, March 2020. This study presents the evolution of downhole fiber optics to a new hybrid electro-optical cable for coiled tubing (CT) applications. These monitoring systems help.

Article Content

Distributed Temperature Sensing

Hybrid or composite cables integrate electrical conductors into the fibre optic cable to allow a single cable to be used for heating and measuring the temperature response.

Permanent fiber-optic cable

We also offer a high-temperature version; designed for challenging applications with high heat (up to 572 degF [300 degC]) and hydrogen, this fiber is uniquely stable and reliable in heavy oil thermal …

Enhancing Production Profiling with Fiber Optic Technology

By using slickline cable, risks associated with tool lift and wellbore debris were effectively mitigated, preventing the utilization of conventional PLT strings.

Distributed temperature sensing

Temperatures are recorded along the optical sensor cable, thus not at points, but as a continuous profile. A high accuracy of temperature determination is achieved over great distances.

Distributed Temperature Sensing: Review of Technology and …

On application side, we reviewed distributed temperature sensing in cables for better ampacity judgment. In the power systems, monitoring of power transformer and traction transformer in order to …

The High-Temperature Resistant Well Logging Optical Cable

The range of cables for direct buried installation includes all our four basic designs: concentric core, grooved core tape, DryTech and tape in loose tubes.The cables are reinforced with corrugated steel …

Optimization of distributed optical fiber temperature monitoring points ...

The “Z-shaped” optical fiber buried scheme is proposed. Based on this scheme, temperature values along the optical fiber are collected. Then spatial Inverse Distance Weighting …

Dakota--Temperature Logging 1--Introduction

Another well-log application was in boreholes of the Grimsel Rock Laboratory of NAGRA (Switzerland) that focused on measuring the impact of injected warm and cold fluids on the temperature profiles …

Hybrid Electro-Optical Cable for Coiled Tubing Logging and ...

This study presents the evolution of downhole fiber optics to a new hybrid electro-optical cable for coiled tubing (CT) applications. The optical fibers enable optical communication and ...

Research on the Data Interpretation Model of Optical Fiber Profile ...

Fiber optic cables have the advantages of high temperature resistance, high pressure resistance, corrosion resistance, and high accuracy in measuring temperature DTS data. They are widely used ...

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For more information, pricing, or custom solutions, please contact us:

Website: https://mastercarpetsandflooring.co.za
Email: info@mastercarpetsandflooring.co.za
Phone: +27 82 547 3961
Address: 21 Maxwell Drive, Woodmead, Sandton, 2191, South Africa

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