Installation of High-Temperature Logging Optical Cables in West Asia

Overview

Here we outline some new technologies in this context within case studies from different research projects including permanent installation of fiber-optic sensor cables behind casing, monitoring of high-temperature wells, a hybrid wireline logging system, and. Here we outline some new technologies in this context within case studies from different research projects including permanent installation of fiber-optic sensor cables behind casing, monitoring of high-temperature wells, a hybrid wireline logging system, and. Permanent downhole fiber-optic cables are critical infrastructure in wellbore monitoring systems, ensuring reliable transmission of data for applications such as distributed temperature, acoustic, and strain sensing (DTS, DAS, and DSS)—all with one 1/4-in control line. These monitoring systems help. New methods in geophysical exploration and monitoring with DTS and DAS New methods in geophysical exploration and monitoring with DTS and DAS J. Reinsch 1 1 GFZ German Research Centre for Geosciences 2 BAW Federal Waterways Engineering and. China Unicom Global and Cambodia's Ministry of Posts and Telecommunications (MPT) have reached a major milestone with the landing and installation works of the 2,938 km Sihanoukville-Hong Kong (SHV-HK) submarine cable system. China Mobile International (CMI) has completed system acceptance and. This study presents a comparative analysis between these conventional approaches and the latest distributed fiber-optic sensing (DFOS) technologies. Specifically, we highlight the diagnostic power of distributed temperature sensing (DTS) and distributed acoustic sensing (DAS) in two real-world. This paper discusses the first fiber-optic (FO) installation in a vertical high-pressure high-temperature deep gas well in PDO, Oman.

Article Content

Distributed optical fiber temperature sensor and its application in ...

Download Citation | On Oct 25, 2017, Xiaofei Zhu and others published Distributed optical fiber temperature sensor and its

CASE STUDY

Enhanced production logging was performed using fiber-optic cable cemented behind the casing to assess well and field performance.

477523_1_En_171_Chapter 1807..1815

First, in view of the slow transmission rate of the logging cable, an advanced high-speed cable transmission module is adopted.

Optiq Fiber-Optic Solutions | SLB

Optiq solutions can be seamlessly integrated with any existing fiber-optic infrastructure (such as in pipeline integrity monitoring) or by

The High-Temperature Resistant Well Logging Optical Cable

The High-Temperature Resistant Well Logging Optical Cable Adaptable para pozos de petróleo, pozos de gas, minas de carbón o

Distributed fiber optic temperature and strain sensing in cementing

In this study, we installed two fiber optic cables with different designs into a new well, a soft-flat cable and a stainless

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)

Downhole Logging

Wireline cables for downhole logging applications, delivering reliable power and data in high-pressure, high-temperature wells.

(PDF) The First Behind-Casing Fiber-Optic Installation in a High ...

This paper details the first fiber-optic installation in a high-pressure high-temperature deep gas well in Oman. Fiber-optic technology

SPECIALTY AND HARSH ENVIRONMENT FIBER OPTIC CABLE

Specialty Fiber Optic Cable Customers around the world benefit from using AFL fiber optic cable and components for downhole

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

New methods in geophysical exploration and monitoring with DTS and

In the HE-35 high-temperature geothermal well (Iceland), a cable with a “hermetic” carbon/polyimide-coating fiber was installed, also

Malaysia''s First Real-Time Fiber Optic Logging with High-Fidelity ...

The method of simultaneously distributed fibre optic measurement of temperature and acoustics was used for the first time and

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Summary The Distributed Temperature Sensing (DTS) technique using an optical fiber sensor is a relatively new method in

New methods in geophysical exploration and monitoring with DTS and

Here we outline some new technologies in this context within case studies from different research projects including permanent

Optical fiber logging cable Special cable

It is specially designed to work in high-pressure, high-temperature, and harsh chemical environments associated with

Fiber-Optic Technology Allows Real-Time Production Logging Well

It will also illustrate a multiwell logging campaign in the Marcellus shale, which highlights the benefits of fiber-optic

P-30 A New Wireline Tool : Temperature Logging by DTS

The Distributed Temperature Sensing (DTS) technique using an optical fiber sensor is a relatively new method in

Permanent fiber-optic cable

We pioneered accelerated aging tests for optical fibers at high temperatures; the fiber resulting from this research demonstrates an

A High Data Rate Fiber Optic Well Logging Cable

This development has led to a new logging cable with superior mechanical properties, containing eight electrical wires and three

Distributed optical fiber temperature sensor and its application in ...

This paper analyzes the demand of temperature measurement for high temperature wells of oilfields and

The First Behind-Casing Fiber-Optic Installation in a High ...

A specially designed fiber-optic cable was successfully installed and cemented behind the production casing, which

Bazaid et al No 1

Implementation: Fiber-optic cables are installed along the wellbore. The DTS system sends a laser pulse down the fiber, and the

Production logging via coiled tubing fiber optic ...

The downhole instrument The downhole instrument of ACTIVE optical fiber transmis-sion system mainly consists of three parts,

Study on Continuous Monitoring Technology of Fiber-Optic ...

In this paper, a technology of continuous monitoring of production profile by optical fiber is proposed. The optical cable

(PDF) Memory high temperature production logging technology and ...

In combination with Production logging, Spectral Noise Log (SNL) & High Precision Temperature (HPT) tool string

Dakota--Temperature Logging 1--Introduction

For the application of continuous, high-resolution temperature logging for scientific purposes, two major types of logging tools are

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