



ZTP Thermal & Power

Principle of High-Temperature Well Logging Optical Cable in Tajikistan





Principle of High-Temperature Well Logging Optical Cable in Tajikist

(PDF) Memory high temperature production logging technology and

To solve the temperature resistance problem of instruments, thermal insulation coatings, vacuum flask, and other methods are commonly used for temperature isolation. This article mainly

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Well Logging: Principles, Applications and Uncertainties

Well logs are usually recorded while the logging device is being winched upward through the well. The measurements from the instruments housed in the log-ging tool are recorded digitally at intervals of

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Research on the Data Interpretation Model of Optical Fiber Profile

Abstract: 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

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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

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STUDY OF OPTICAL WELL LOGGING METHODS FOR HIGH



INTRODUCTION performing well- logging operations in high- temp rature geothermal wells. The total period of the contract is twelve months. The concept; summarized schematically in Figure 1, is based

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Hybrid Electro-Optical Cable for Coiled Tubing Logging and

Abstract. 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

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Application of optical-fiber temperature logging

Plots of temperature and geothermal gradient versus depth as obtained by the different logging devices in two boreholes. DTS data are in red,

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HPHT Well Logging and Testing Advances

As oil and gas exploration moves to deeper reservoirs with extreme pressures and temperatures, innovative technologies are being developed to evaluate and

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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 optical fibers with a data rate of at least 10 Mbits/second each. This fiber

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Production logging via coiled tubing fiber optic

However, a number of shale gas wells need to be evaluated in the effects of well drilling and completion and fracturing, providing the guidance for the next fracturing design, so



the production logging via

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First, in view of the slow transmission rate of the logging cable, an advanced high-speed cable transmission module is adopted. Secondly, the ground system and the downhole instrument were

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Fiber-optic technologies and methods for downhole monitoring

Sensor cable: Protect fiber from mechanical and chemical influences. Steel tube, with additional jacketing (plastic, steel). May contain several fibers for different sensing techniques. Cable clamps:

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Real-time monitoring of pressure and temperature of oil well using a

A carbon-coated and bellow-packaged optical fiber sensor for high pressure and high temperature monitoring in downhole applications is developed and successfully field-applied in an oil

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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

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Application of Electro-Optical Hybrid Cables in Horizontal Well



This paper mainly introduces the unique structural features and various applications of the electro-optical hybrid cables which were deployed into downhole with the help of coiled tubing technology. Fiber

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Development and Application of High-Temperature Electric Imaging

This article serves to address the evolving challenges in ultra-deep well logging, offering insights into the design, functionality, and practical performance of a high-temperature electric imaging logging

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Design and Experimental Research of a Fiber-Optic Communication

The ability to provide reliable transmission systems in the harsh environments like high temperatures is the key driver for the continued use of fiber-optic communication for in-well applications.

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Hybrid Electro-Optical Cable for Coiled Tubing Logging

Download Citation , Hybrid Electro-Optical Cable for Coiled Tubing Logging and Interventions , This study presents the evolution of downhole fiber optics to a new hybrid electro

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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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Permanent fiber-optic cable

We pioneered accelerated aging tests for optical fibers at high temperatures; the fiber resulting from this research demonstrates an almost 50-fold increase in light transmission, exceptional resistance to

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Application of Coiled Tubing Distributed Optical Fiber Temperature

Considering the temperature resistance of the downhole optical fiber, the coiled tubing does not continue to enter the well. In order to ensure the accuracy of the position of the optical fiber into the well, it is

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Application of Coiled Tubing Distributed Optical Fiber Temperature

The distributed optical fiber temperature sensing (DTS) system is used to collect the



high frequency temperature through the coiled tubing downhole optical fiber.

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Specifically, we highlight the diagnostic power of distributed temperature sensing (DTS) and distributed acoustic sensing (DAS) in two real-world field applications. In each case, traditional tools failed to

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Geophysical Well Logging , Springer Nature Link

Logging cable and tools must be constructed in such a way that can withstand the highest temperatures and pressures encountered in the well. Interpretation of well-log data may commonly require

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