

## Principle of Tuvalu Well 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. 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. The optical fibers enable optical communication. Well logging is a method used for recording rock and fluid properties to find gas- and oil-containing zones in subsurface formations. The location of petroleum reserves requires an understanding of the nature of the rocks in which these reserves occur, and well logs are one of the primary sources. More specifically, the invention is related to designs for a well logging cable including optical fibers for signal communication. Optical viewers (OTV) provide high-resolution, magnetically oriented, color images of the borehole wall. These images are used to map rock types and orientations of planar features such as fractures, joints, lithologic contacts, and bedding that intersect the borehole.

## Article Content

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

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### Production logging via coiled tubing fiber optic infrastructures (FSI ...

At the same time, the technology uses optical fiber as the data transmission means, the anti-interference ability is strong, and the electrical signal of the downhole monitoring tool is used. It is converted into ...

### 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.

### Well Logging: Principles, Applications and Uncertainties

This study proposes a borehole zone feature alignment framework to perform cross-modality registration between the point clouds of the borehole walls and their corresponding intensities.

### Efficiency of Coiled Tubing Well Interventions Increased by ...

The ACTIVE Power CT real-time powered downhole measurements system delivers continuous fiber-optic data and power from surface through a hybrid electro-optical cable installed in ...

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In the preferred embodiment, the tube is surrounded by an elastomeric jacket, and is filled with hydraulic oil or the like to prevent entry of wellbore fluids into the tube under hydrostatic...

### Well Logging Engineering

Signal transmission over the cable may be in analog or digital form. The cable is also used to transmit the electrical power from the surface to the downhole tools.

### 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 ...

### Well logging

This technique provides similar well information to conventional wireline logging but instead of sensors being lowered into the well at the end of wireline cable, the sensors are integrated into the drill string ...

#### Borehole Optical Televiewer (OTV)

Most OTV tools use a digital camera directed upward or downward on a conical mirror to collect 360-degree images of the borehole wall. The tools provide continuous images through air- or ...

#### Acoustic and Optical Televiewer Borehole Logging

Previous of ATV systems sent an analog signal up the logging cable that was displayed and photographed on an oscilloscope. Nowadays, the analog signal is digitized downhole, and the digital ...

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