

Well logging optical cable das



Overview

DAS embedded in hybrid optical-electrical cables, which utilizes the wireline as seismic recording element and so it leverages any logging intervention in a well to become a seismic run. Enables real-time acquisition of DTS, DAS, and DSS data in combination with pressure and temperature readings from permanent downhole gauges. The SLB optoelectric permanent downhole cable encapsulates an electrical conductor and a metal tube with up to three optical fibers. It enables actuating. Our patented technology of distributed fiber optic sensing offers major advantages over traditional methods. The FEBUS Optics interrogators have been developed and optimized to meet all the challenges of well monitoring and its many applications. DAS is an efficient alternative to acquire VSP surveys, especially in costly offshore environments. These include several distributed methods, where data is recorded with high spatial and temporal resolution over long distances using the optical fiber as a sensor, exploiting different scattering mechanisms. Explore how Weatherford combines engineering expertise, global reach, and digital platforms to help operators make smarter, faster decisions.

Article Content

May 31, 2026

WELL Definition & Meaning | Dictionary

WELL definition: in a good or satisfactory manner. See examples of well used in a sentence.

Jun 19, 2026

A Step Forward in DAS VSP Acquisition in Vertical ...

In this case study, the operator opted for a faster alternative using an ultra-strength hybrid optical-electrical logging conveyance system that also ensures safe operation in difficult wells.

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Mapping the orientation of downhole sensing cables and control ...

DAS sensing fibre introduced by intervention to survey beacons. Customer wanted a low cost method to map the position of control line bundle outside tubing on a new smart well completion. control lines ...

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Well monitoring comprehensive turn-key solution | FOWell

A complete well integrity monitoring system is created by combining the FEBUS A1 (DAS), the FEBUS T1-R (DTS) and the FEBUS G1-R (DSTS). Our solution offers highly sensitive devices, distributed ...

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Repeat DAS and DTS production logs on a permanent fiber optic cable ...

This paper presents how joint DAS and DTS logging on a permanently deployed fiber optic system allows us to sense changes in production distribution along a horizontal well.

Aug 14, 2025

WELL | English meaning

WELL definition: 1. in a good way, to a high or satisfactory standard: 2. very much, to a great degree, or.... Learn more.

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Fiber Optic Downhole Monitoring System Survives High-Electric ...

After an assessment of the project requirements, Weatherford experts proposed an in-country, fiber optic monitoring system with a proven record of reliability and backed by data from a gas well completion ...

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Real-Time Downhole Monitoring Using DAS and DTS: A New ...

In this study, we will investigate different failure patterns occurring on the well completion, as the production tubing or packers. On the first hand, we will see that the combination of DAS...

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Permanent fiber-optic cable

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 ...

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New methods in geophysical exploration and monitoring with DTS ...

We show that fiber-optic sensing opens up new possibilities for geophysical measurements with a broad range of applications in well logging and seismic exploration and monitoring.

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Optoelectric permanent downhole cable

Enables real-time acquisition of DTS, DAS, and DSS data in combination with pressure and temperature readings from permanent downhole gauges. The SLB optoelectric permanent downhole cable ...

Aug 30, 2025

WELL Definition & Meaning

Insistence on well rather than good has resulted in a split in connotation: well is standard, neutral, and colorless, while good is emotionally charged and emphatic.

Nov 10, 2025

Well Definition & Meaning | YourDictionary

Well definition: A deep hole or shaft sunk into the earth to obtain water, oil, gas, or brine.

Jan 31, 2026

WELL definition and meaning | Collins English Dictionary

You say well to express your surprise or anger at something that someone has just said or done.

Jul 11, 2025

DAS VSP Using Hybrid Wireline Logging Cable in Deepwater Wells

This work reports the results of two Vertical Seismic Profiles (VSP) in deep-water deviated wells in Brazil, acquired using Distributed Acoustic Sensing (DAS) as part of a hybrid ...

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