

Uganda Well Logging Fiber Optic System



Overview

This paper proposes a reflective fiber-optic sensor network for multiparameter state monitoring in oil and gas wells. The network is composed of a ground-based sensing signal demodulation system, a fault detection module, and an underground optical fiber sensing topology. Specifically, we highlight the diagnostic power of distributed temperature sensing (DTS) and distributed acoustic sensing (DAS) in two real-world. This study presents a comparative analysis between these conventional approaches and the latest distributed fiber-optic sensing (DFOS) technologies. The FEBUS Optics interrogators have been developed and optimized to meet all the challenges of well monitoring and its many applications.

Uganda Well Logging Fiber Optic System



This paper proposes a reflective fiber-optic sensor network for multiparameter state monitoring in oil and gas wells. The network is composed of a ground-based sensing signal ...



An ultralow stretch armored cable containing 3 optical fibers and 8 electrical conductors has been developed for use in oil well logging operations. A mating cablehead termination, optical transmitter ...



The distributed fiber optic vibration signal data extracted from the fiber optic sensor for injection well A were selected for processing, and the well was ...



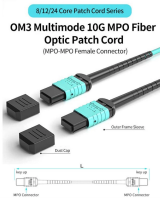
This work not only validates fiber-optic sensing as a high-resolution diagnostic platform but demonstrates its readiness as an intervention enabler, offering a scalable methodology for complex ...



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 ...



The distributed fiber optic vibration signal data extracted from the fiber optic sensor for injection well A were selected for processing, and the well was logged for the purpose of detecting ...



These results demonstrate that fiber optics represents a paradigm shift in well integrity assessment, transitioning from interpretive and reactive methodologies to real-time, high-resolution, and proactive ...



The distributed fiber-optic sensors have proven their ability to provide significantly valuable information from drilling through the completion, production, and intervention stages of a well...



In this study, we installed two fiber optic cables with different designs into a new well, a soft-flat cable and a stainless-steel cable, for distributed fiber optic sensing in cementing and water ...



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 ...

Contact Us

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

Website: <https://yoahorroenergia.es>

Email: hello@yoahorroenergia.es

Phone: +233 54 318 7269

Address: Plot 28, Spintex Road, Accra, Greater Accra, Ghana

This document is for informational purposes only. Specifications subject to change without notice.

