Principle of Argentine Downhole Temperature Measurement Optical Cable

TEF cable is a key enabler of modern well management technologies. TEF cable is the sensor element for modern distributed fiber optic sensing technologies of DTS and DAS, which have become ...

One optical fiber provides temperature measurements every 0.5 m [about 1.6 ft] along its length, producing a profile of temperature effects along the production string and--when applicable--across ...

Distributed Temperature Sensing (DTS) utilizes multi-mode Fiber Optic cables to measure distributed temperature data. This generates a continuous temperature profile along the length of the ...

In the presented project, three boreholes of a seasonal geothermal energy storage with a vertical depth of down to 500 meters were instrumented with distributed fiber-optic sensors.

An operator in Mexico used the distributed temperature sensing (DTS) run with coil tubing to record temperature profiles along the carbonate reservoir being stimulated to reduce near-wellbore...

High Density Sensor Cables Provides accurate, high-resolution temperature data rated to 300° C with excursions above Delivers a well"s precise thermal profile with up to 60 measurement points in a 0.5 ...

This work shows the benefit of continuous downhole monitoring during the lifetime of a well. Fibre optic cables were permanently installed in a doublet injector/monitor well system as part ...

The principles and conclusions drawn from the analysis provide references for estimating bottom-hole circulating temperature and cement slurry temperature in cement job designs and for addressing ...

AFL"s Traditional Downhole cable was designed for land based and offshore wells where the temperature can be up to 150ºC. This design uses AFL"s patented stainless steel tube technology ...

It provides many benefits, such as the ability to perform different measurement types (e.g., temperature, acoustic, strain) using a single cable with multiple fibers. Additionally, it enables simultaneous ...

The principle is that when the cable is heated with a constant power input over time, the temperature inside the cable at steady state is a function of the velocity of the surrounding water.

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