

wellsnwaves⁷

SUBSURFACE INTELLIGENCE

Fiber that Listens for Clarity Below:
Insight which leads to Confidence

TURNKEY OPTIONS CONSISTING OF:

-  **PLANNING, DESIGN**
-  **DESIGN & SUPPLY
OF THE CABLE**
-  **INSTALLATION**
-  **CALIBRATION**
-  **COMMISSIONING**
-  **DATA HANDLING**

**DEEPER INSIGHTS
BRIGHTER
POSSIBILITIES.**

DISTRIBUTED FIBER-OPTIC SENSING

Optical Fiber and Hybrid Measurement Systems

Assistance in designing optical fiber measurement and data acquisition systems tailored to your needs.

SENSING TECHNOLOGIES

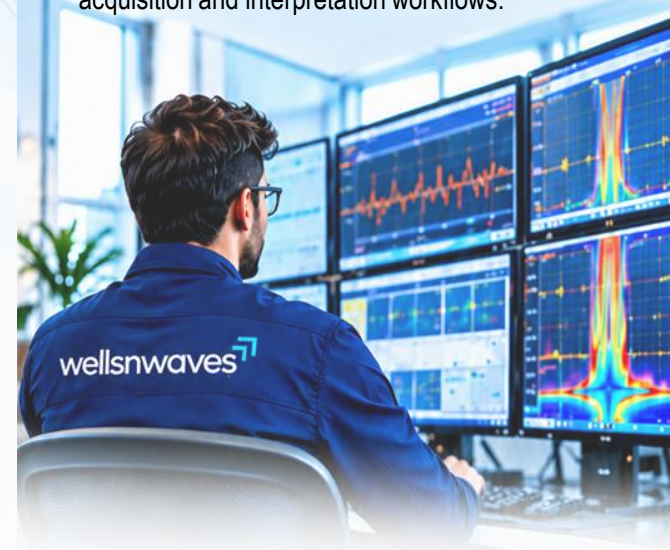
-  **DTS Distributed Temperature Sensing** Continues temperature profiles along the entire wellbore.
-  **DAS Distributed Acoustic Sensing** Detects vibrations and acoustic events in real time.
-  **DSS Distributed Strain Sensing** Measures strain and deformation along the wellbore.
-  **FBG Fiber Bragg Gratings** Point-based high-precision sensing for critical parameters.

-  Selection of suitable optical sensing technologies for temperature, strain, P/T, and acoustic measurements. (DTS, DAS, DSS, FBG).
-  Expertise in specifying and overseeing the installation of downhole fiber optic systems.
-  Validation of DFOS and hybrid installations.
-  Extensive track record of provision of specialized and customized solutions meeting clients' requirements.

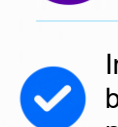
DATA SERVICES

Data Acquisition & Processing

From raw data to actionable insights using advanced acquisition and interpretation workflows.



FROM RAW DATA TO INSIGHT

-  **Acquisition Systems**
Reliable, high-performance hardware and software solution.
 -  **Signal Processing**
Advanced algorithms for high-fidelity data and noise reduction.
 -  **Data Interpretation**
Identification of downhole events and operational anomalies.
 -  **Data Management**
Secure storage, visualization and reporting for informed decision making.
-  Independent guidance in selecting the best acquisition systems for your needs.
 -  Custom configuration of surface acquisition systems from leading vendors.
 -  Assistance in signal processing for extraction and interpretation of subsurface information, e.g. DTS-based leak detection and flow evaluation.
 -  Efficient data management solutions to ensure integrity and usability.

TURNKEY DELIVERY

Design, Installation and Calibration

FROM PILOT TO OPERATION

- ❖ Assistance from pilot to large-scale installations.
- ❖ Expertise in integrating fiber-optic systems with your wellbore architecture.
- ❖ Calibration and validation of DFOS performance.
- ❖ Turnkey solutions ensure successful deployment of DFOS systems, from design to fully operational status.
- ❖ Critical integration of systems to ensure optimal performance.

CABLES & FIELD SUPPORT

- ❖ Assistance in assembly, rigging up, deployments and measurements.
- ❖ Education and training for field hands.
- ❖ Post-sales support.

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