

Wireless Well Solutions

CaTS Wireless Retrofit Monitoring

Expro's wireless downhole monitoring system uses the world-leading CaTS EM technology to transmit high resolution pressure and temperature data throughout the well life cycle.

Installing a CaTS wireless gauge into the well makes it possible to introduce or restore downhole P&T monitoring to increase the understanding of downhole conditions. The system can be installed in static observation wells for reservoir surveillance and regulatory compliance and in flowing wells for production optimisation. CaTS gauge can be retrofit into existing wells to reinstate critical P&T measurements or run as part of new completions. The CaTS system can be combined with Expro's cabled gauges to provide a cost-effective and innovative hybrid solution to monitor and control remote and isolated zones.

Features

- Market-leading technology with 20 year proven track record in wireless EM communications
- Signal not attenuated by cement plugs, mechanical barriers or high doglegs
- High precision quartz transducer for reliable P&T measurements
- Wireless data allows isolated zones to be monitored without barrier penetrations
- Duplex functionality to optimize system performance and deliver critical data at the right time
- Long transmission range minimizes the downhole equipment installed

Benefits

- Provides real-time P&T data from previously unmonitored zones for improved well management
- Retrofit capability enables rapid reinstatement of P&T monitoring
- System provides cost effective alternative to expensive well intervention and workovers for reinstating downhole monitoring
- Continuous long term monitoring possible with battery replacements
- Higher accuracy data as gauge is located closer to the reservoir
- Removes the complexity of reliability running cables through zonal isolation assemblies
- Ability to monitor multiple producing zones and laterals within the same well due to wireless communications and addressability of gauges
- Provides P&T data for compliance with local guidelines and regulations
- Complies with local abandonment and suspension guidelines/regulations



Applications

- Production optimization
- Artificial lift optimization
- Gas storage monitoring
- Reservoir surveillance
- Extended production and well tests
- Failed permanent gauge replacement
- Reservoir pressure control and water injection management
- Multi-zone and multilateral completions
- Ground water monitoring