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### **Petrospec & GRC Jointly Launch a New ESP Monitoring System, Sensor-Tube ESP™**

Petrospec Engineering Ltd. (Petrospec) and Sercel-GRC announce together the introduction of Sensor-Tube ESP™ system- a new advancement in electric submersible pump (ESP) monitoring.

The new ESP monitoring system combines GRC's leading Spy Pro waterproof TEC wire ESP gauge with Petrospec's multi-point temperature monitoring for a more capable artificial lift monitoring system, designed to provide data for ESP predictive failure analytics.

Sensor-Tube ESP™ is a hybrid electro-optic system, combining fiber optic distributed temperature sensing (DTS) along with TEC wire in a single downhole cable, with an integrated surface data acquisition system and real-time data processing. This provides multiple temperature measurement points in addition to the traditional ESP gauge to input thermal data into diagnostic and predictive analytics software. Analysis of temperature changes in monitored ESP components can be modeled against historical events to accurately predict the onset and timing of critical failure modes.

The integrated DTS system can also provide full wellbore temperature monitoring to detect temperature changes and non-conformities to characterize flow conditions, well integrity, and reservoir response to well operations. For applications that may not benefit from such full wellbore data, or applications that require higher spatial resolution, an optional version that integrates Gore® high density sensor cable (HDSC) is recommended where multiple sensor points can be precisely located and set at the factory.

Use of Sensor-Tube ESP™ can predict ESP failures for advanced planning of workovers to minimize downtime. The product is being introduced in tandem with Petrospec's Power-Tube™ rigless ESP system, a coil tubing deployed ESP where all power, process and sensor cables are encapsulated and integrated within coil tubing to allow for rapid hot, live well interventions.

The combination of these products to accurately predict, plan, and streamline ESP workovers provides significant economic and operational benefits to operators. Sensor-Tube ESP™ combines the best in downhole pressure gauge technology from GRC and rugged high temperature monitoring technologies developed by Petrospec that serve the SAGD sector. The product is available direct from Petrospec or through the Sercel-GRC global network of distributors.

#### **About Sercel-GRC**

Headquartered in Tulsa, Oklahoma, Sercel-GRC provides downhole instrumentation to artificial lift and reservoir monitoring markets worldwide. The company's artificial lift gauge systems provide subsurface data needed to optimize ESP, gas lift, PCP, rod pump, and jet pump applications. GRC's gauges have been installed in over 37,000 artificial lift wells to measure pressure, temperature, vibration, and other downhole conditions.

More information about Sercel-GRC is available at [www.sercel-grc.com](http://www.sercel-grc.com).



## News Release

### **About Petrospec Engineering**

Petrospec Engineering is an oilfield services and technology provider focused on improving efficiencies and safety in producing oil and gas resources worldwide. Based in Alberta, Canada, the company is a leading provider of turn-key reservoir monitoring systems, and specializes in new production optimization technologies that support oil & gas operators producing unconventional resources globally.

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