

Introducing Titanium Energy Services' fully integrated solution that leverages the capabilities of wireline within coiled tubing, coupled with fluid pumping services, to deliver an unparalleled active ranging service. The E-Coil RTM Ranging incorporates the efficient features of Remote Temperature Monitoring (RTM), seamlessly paired with the magnetic ranging directional drilling tools, enabling continuous temperature monitoring remotely in SAGD applications.

This innovative E-Coil RTM Ranging approach establishes a comprehensive and highly adaptable process designed to guide the directional drilling tool alongside a designated adjacent well, adept at avoiding obstacles and ensuring the success of a new drill. The amalgamation of these techniques maximizes performance, flexibility, and efficiency, presenting the optimal solution for surpassing even the most ambitious operational and budgetary goals.



## Benefits:

**Effective:** *Continuous wellbore temperature monitoring to circulate on demand while paired with magnetic ranging services to achieve successful directional drilling objectives.*

**Economical:** *Cost savings compared with water usage and logistics, operational duration and demands of other methods*

**Efficient:** *Less trip times, less operational costs, paired with safe SAGD policies and procedures*



## E-COIL RTM RANGING

INTEGRATED SOLUTIONS

### Coil Tubing Unit

The coil tubing unit is equipped electric wireline capabilities for Remote Temperature Monitoring (RTM) when paired with magnetic ranging directional drilling tools for active ranging. The E-Coil RTM Tool is run into the well on coil tubing to provide live temperature while guiding or initiating collision avoidance and directional control.

### Fluid Pumping Unit

Skilled professionals with high-rate, high-volume fluid pumping equipment that are capable of up to 10,000PSi. and pump rates up to 2m<sup>3</sup>/min circulate water and maintain pressure and temperature control.

### Boom Truck Crane

A skilled crane operator lifts and supports equipment during coiled tubing operations, unless a masted e-Coil unit is chosen for the project. Multiple setups are available to meet client spacing requirements.

### Catch Tanks

Titanium Energy Services provides catch tanks for capturing fluids, debris, or other materials pumped out of the well during operations.

[www.titaniumenergyservices.com](http://www.titaniumenergyservices.com)

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