

## Products & Services Application Suitability

### Propagation Fall Off Testing

During the planning phase of Leech Mining, it is important to understand the permeability and propagation profile of the source rock.

Injection Fall Off Testing (IFOT) can provide invaluable data for the planning of future Leech Mining operations, including understanding the injection pressure and volumes, and the need for Hydraulic Formation Pre-Conditioning.

Excelsior Energy offers turn-key testing solutions through pre-mob detailed planning of test program, Wireline log evaluation, visual core interpretations, daily drilling report reviews, comprehensive field operations experience, well control under testing conditions, data modelling and interpretation.

Permeability testing provides valuable data to the operators' Mining Engineers for infill drilling planning, reservoir engineering and production forecasting.

### Hydraulic Pre-Conditioning

Based on the results of Propagation Fall Off Testing, Hydraulic Pre-Conditioning may be required before the Leech Mining process can proceed.

The Hydraulic Pre-Conditioning method includes the injection of pre-determined volumes and pressure of fluid to fracture the source rock to allow future acid treatments to penetrate deeper and more efficiently.

This treatment can be conducted immediately after initial Propagation Fall Off Testing in a single trip.

- After flow pack of the pre-conditioning of the source rock, a follow up Fall Off Test can be conducted to evaluate the impact of the Hydraulic Conditioning on the source rock.

