

# Interface Thermal Solvent Test

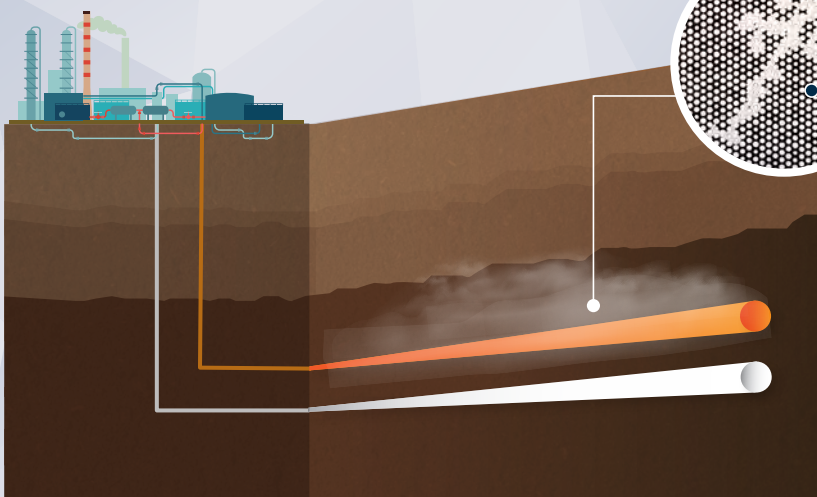
## SAGD fluid performance screening

**Evaluate a range of additives, solvents, and concentrations, to optimize oil recovery.**

The Interface Thermal Solvent Test uses a reservoir analogue, in place of core, in a test similar to sand pack testing. The analogue is designed and fabricated to have a porous pattern replicating the inherent geometries of a specific reservoir. It is filled with water, then bitumen, to establish initial saturations. Testing is conducted under controlled conditions, including steam temperature and pressures.

Interface's technology platform offers advantages in the evaluation of solvent performance for SAGD. The system's optical-access enables first-of-its-kind visual insights into asphaltene deposition, steam chamber growth, and steam-to-oil ratio at the pore-scale.

### Interface of the steam-bitumen mobilization zone



**Tests are repeatable.**  
**The analogues are identical and the system is highly controlled.**

Interface's specialized equipment, machine vision software, and refined testing protocols, enable tests to be run efficiently in a matter of days. Results include quantitative performance measurements - including recovery rates over the length of the test - and the relative steam-to-oil ratio is recorded.

## Rapidly assess an expanded number of conditions including:

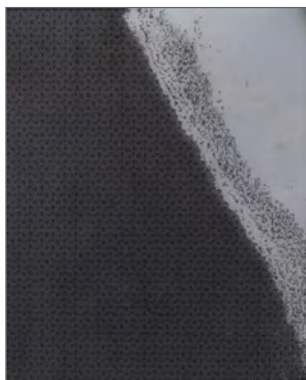
- Different solvents
- Concentrations
- Operating conditions (temperature and pressure)
- Reservoir geometries

Realize additional oil recovery by optimizing solvent performance

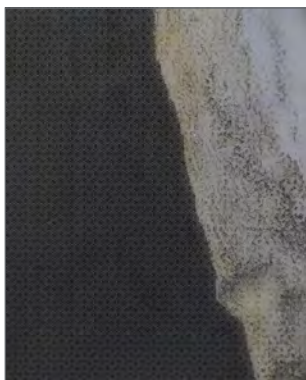
Improve stimulation outputs through refinement with large datasets from physical tests

De-risk fluid selections before exploring sandpack testing options or going to the field

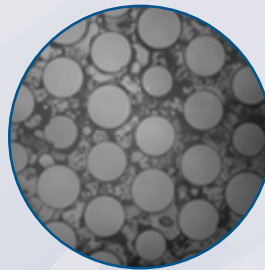
### Pure Steam



### Solvent

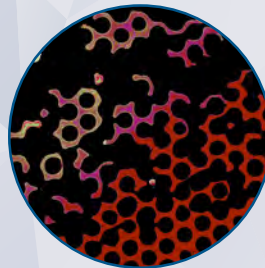


## Benefits



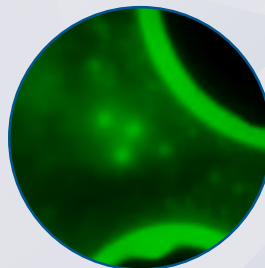
### Visual Insights

- Asphaltene Deposition
- Emulsions
- Steam Chamber Growth



### Reservoir Representative Conditions

- Pore Throat Size
- Temperature
- Pressure



### Time

- Run a suite or testing in a few weeks

## Quickly evaluate multiple conditions

The Interface Thermal Solvent Test is ideally suited to economically evaluate the incremental improvements gained from additives. Receive a full report that both qualitatively and quantitatively evaluates additive performance.

	Sandpack	Interface FLUIDICS
Speed	✗	✓
Repeatable	✗	✓
Pore-scale visualization	✗	✓
Small sample volume	✗	✓
Combustion	✓	✗