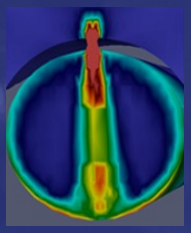
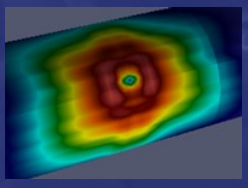
Pilot Rig Testing

The pilot rig allows field representative test pieces and flow conditions to be examined



How our services can help you



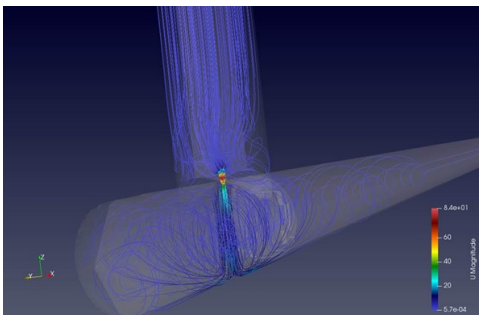
Main Services

Pilot Rig Testing

- Dedicated Pilot Laboratory
- Pilot Rig Testing Under Field Realistic Flow Regimes
- Scale and Corrosion Testing

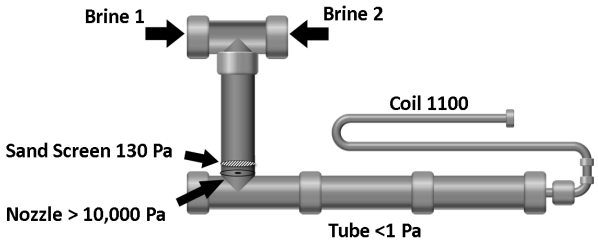
Equipment Capabilities

- Synthetic Brine Production, Filtration and Analysis (up to 8000 L)
- Temperature Control (up to 75° C)
- Pressure Control (up to 5000 psi)
- Flow Rates (up to 16 L/min)



Pilot Rig

Scaled Solutions have integrated their fluid dynamic modelling and Pilot Rig apparatus to investigate the effect of fluid shear on scale formation and precipitation. This has produced a deep understanding of the bulk and surface effects that flow has on scale location formation and deposition. Rig and modelling together have proved to be a powerful tool combination.



- Custom test-pieces designed and manufactured in-house
- Test design and optimisation using computational fluid dynamics
- Full control of fluid flow, brine chemistry, corrosivity and scale conditions

Scaled Solutions

Key Papers

- Neil Goodwin, Mark May, David Nichols, Gordon Graham (Scaled Solutions Ltd.); 'Scale Deposition and Hydrodynamics– Benchtop to Pilot Rig'; SPE- 190756
- E. Albino, H Guan (Schlumberger), H.L. Pinto, M.C. Bezzera (Petrobras), N. Goodwin, G.M. Graham (Scaled Solutions Ltd.); 'Minimising Scale Deposition Through Surface Enhancement in Downhole Tools'; SPE- 169781
- Rodney Madjitey, Hunter Thomson, Caroline Simpson, Dario Frigo, Gordon Graham (Scaled Solutions Ltd.); 'Corrosion Testing in Moderate and Ultra High Shear Production Environments'; SPE- 190906

Truly Independent Laboratory

At Scaled Solutions, our mission is to be recognised worldwide through our independent specialised laboratories as the leading supplier of bespoke equipment, training, consultancy and provider of solutions to challenges in Production Chemistry, Corrosion and Formation Damage.

We aim to exceed our customers' expectations and improve our service to our customers on a continual basis through our key values: team work & communication, openness & transparency, continual improvement and trust.

Quality, Integrity, Safety and Excellence

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