



LABORATORY

TECHNICAL SERVICES & SUPPORT

Hybrid Chemical Technologies has a dedicated, full-service laboratory and research centre based out of Calgary, AB. While we primarily support O&G development in the WCSB, we also provide ongoing sales, support and technical consulting to markets in the US, Europe and Australia.

**RESEARCH &
DEVELOPMENT**

**QUALITY
ASSURANCE**

LABORATORY

**DEPLOYMENT
OF FIELD
SPECIALISTS**

**TECHNICAL
SUPPORT**

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IN-HOUSE SERVICES

RHEOLOGY

- Brookfield PVS
- Chandler 5550 HPHT
- Brookfield DV-II
- Fann 35, Marsh Funnel

BASIC WATER ANALYSIS

- pH, Salinity, TDS
- Iron, Chlorides

IRP 8 TESTING EQUIPMENT

- Closed Cup Flashpoint
- Reid Vapor Pressure

ACID MATRIX & SPEARHEAD

- Acid/Oil compatibility
- Titration

LUBRICITY TESTING

- Metal-to-Metal

PARAFFIN & ASPHALTENE

- WAT
- SARA Analysis

BACTERIA

- Population Count
- Kill Studies
- APB/SRB Culture Growth

CLAY SWELLING

- Capillary Suction Timer

FOAM TESTING

- Quality, Half-Life

CORROSION TESTING

- Static Coupon
- LTLP (up to 90°C)

BASIC SCALE TITRATION

- STP using Conductivity

PROPPANT TESTING

- API RP 56

SURFACTANT & EMULSION

- IFT / ST
- Stacked Column
- Oil/Gel Compatibility

ALLIANCE PARTNERS

FRICITION REDUCTION

- Flow Loop Pressure Drop

SCALE ANALYSIS

- Advanced Water Analysis
- Scale Tendency

VISCOELASTICITY

- $G' / G'' / n^*$

UNKNOWN ANALYSIS

- XRD/XRF
- GC-MS
- FTIR
- HPLC

CORROSION TESTING

- Dynamic Coupon
- HTHP (up to 200°C)

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