



## **OILFIELD CHEMICAL TECHNOLOGY LIMITED**

### **SUMMARY OF SERVICES**

Oilfield Chemical Technology Limited is a well established independent consultancy and testing facility examining aspects of oil and gas drilling, reservoir engineering and production operations relating to fluid behaviour, material integrity, chemical and engineered system enhancements.

We routinely undertake test work at up to 10,000 psi examining fluid properties in both drilling and production operations using a variety of flow loops and pressurised test cells.

We also undertake practically based research programmes under funding from oil and gas companies designed to develop new or improved materials for field application or generate behavioural data to assist well operations.

Additional consultancy, engineering services and personnel are on hand to assist in field development by prediction of field chemical requirements, audit and optimisation of process chemicals, technical back up and technological reviews.

The major areas of current operations include :

#### **! DRILLING FLUIDS**

Independent testing of fluids to API standards.  
High temperature / High pressure stability, rheology and compatibility studies.  
Barite sag measurements.  
Core interactions, formation damage.  
Well bore cleaning and stimulation operations.  
Measurement of fluid lubricity.  
Applied research and development.  
Quality Assurance services.

#### **! FLUID DYNAMICS**

Prediction of fluid properties with respect to asphaltene and wax precipitation.  
Hydrate measurements and inhibition.  
Downhole scale formation and inhibitor behaviour.  
Reservoir chemical squeeze operations.  
Water flooding operations.  
Core flow behaviour studies.  
Pipeline flow behaviour studies.  
Drag reducer evaluations.  
Emulsion formation in sub-surface pumps.  
Elastomer testing.

## ! **PRODUCTION CHEMISTRY**

Measurement of corrosion rates and inhibitor performance.  
Scale production, inhibition and removal.  
Microbiology.  
Emulsion formation and dehydration.  
Gas scavenger behaviour.  
Quality assurance procedures and non-routine analyses.  
Research and development.  
Elastomer compatibility studies.

## ! **CHEMICAL MANAGEMENT SERVICES**

Optimisation of field use of production chemicals.  
Audit of process operations and supply companies.  
QA, health and safety, legislative back up.  
Collation, interpretation and action on production data.  
Procurement and logistics services.  
Cost control of chemical usage.  
Provision of consultants and site chemists.

## ! **SUPPORT SERVICES**

Supply of consultants in the areas of completion and production chemistry.  
Site services including wellsite analysis and technician supply.  
Review and interpretation of analytical and performance data to predict field behaviour.

The above list is indicative of current work but is only part of the total Oilfield Chemical Technology Limited operation.

Further information is available from the Aberdeen office.

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