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HADAF

Company Profile

Oilfield Laboratory Consultancy & Solutions

Facility design and setup, equipment procurement, daily operations management, chemical selection and qualification, and quality system implementation.

CEMENTING | DRILLING AND COMPLETION FLUIDS | STIMULATION | PRODUCTION CHEMICALS



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Company overview

Technical advisory for oilfield laboratories

About HADAF

HADF provides technical consultancy and integrated laboratory solutions for the Oil & Gas sector. We help operators, Oilfield service provider companies and chemical suppliers establish new laboratories, improve existing facilities and manage day-to-day laboratory operations.

Our scope

Our services connect facility design, equipment specification and procurement, commissioning, chemical selection and qualification, laboratory management, Specialist staffing and experts and Quality system implementation . Technical disciplines include well cementing, drilling and completion fluids, stimulation and production chemicals.

Our approach

We begin by defining the testing requirements and operating conditions, and then align the facility, equipment, personnel, and procedures accordingly. All equipment recommendations are vendor-neutral, taking into account technical suitability, serviceability, acquisition costs, and ongoing operational needs. acquisition cost and ongoing operating needs.



Vision

To be a trusted technical advisor and operating partner for oil and gas laboratories across the region.

Mission

To help energy companies, service providers and chemical manufacturers build reliable and cost-effective laboratory capabilities that support testing quality, operational readiness and informed field decisions.



Who we serve

Oil and gas operators and producers, oilfield service companies, chemical manufacturers and suppliers, as well as laboratory owners and facility managers.



Laboratory development

From requirements to operational readiness

Facility planning and design

We translate the required test scope and anticipated workload into a practical laboratory layout. Planning covers work zones, equipment positioning, sample movement, storage, utilities and safe access for operation and maintenance.

Infrastructure and setup

Our setup support includes coordination of gas lines, ventilation and fume extraction, electrical and utility requirements, and equipment installation interfaces. Safety provisions and manufacturer requirements inform the facility design.



Equipment specification and procurement

We define equipment needs, review technical specifications and benchmark vendor proposals. Our recommendations consider test capability, accessories, lead times, support, training, spare parts and total ownership cost.

Installation and commissioning

We coordinate installation, site acceptance testing, calibration planning and equipment readiness reviews. Where required by the project, installation and operational qualification activities are included in the commissioning scope.

Project coordination and handover

We connect facility readiness with supplier delivery, installation and operational preparation. Handover brings together equipment documentation, operating procedures, maintenance requirements and staff orientation.

Typical project outputs

Laboratory layout and utility requirements; equipment and accessory specifications; vendor comparisons; commissioning and acceptance records; operating and maintenance documentation. Deliverables are defined for each engagement.



Technical disciplines

Testing expertise aligned with oilfield applications

Well cementing
Slurry design validation and additive compatibility; high-temperature, high-pressure consistometry and thickening-time assessment; compressive-strength development using ultrasonic cement analyzers and crush testing; fluid loss, free fluid, rheology and gas-migration assessment.

Drilling and completion fluids
Water-based, oil-based and synthetic-based fluid formulation and optimization; HPHT rheology and filtration; electrical stability; shale inhibition, swelling and erosion assessment; formate-brine and completion-fluid compatibility studies.



Stimulation and fracturing

Matrix-acidizing design support, acid-response assessment and core-flood testing; fracturing-fluid rheology; crosslinker and breaker optimization; friction-reduction assessment; proppant conductivity and crush-resistance testing.

Production chemicals

Chemical sourcing and qualification guidance for production-related applications. We help define candidate-screening criteria, verification plans and compatibility requirements around the intended operating conditions and customer specifications.

Methods and test requirements

Test programs are selected against the application, equipment capability and agreed customer requirements. Relevant API, ISO and ASTM methods are incorporated where applicable; the method and acceptance criteria are confirmed within each project scope.



Operations & chemical qualification

Practical support for daily laboratory performance

Laboratory management

We support daily test scheduling, sample execution, workflow coordination and technical reporting. The operating model connects personnel, equipment availability and consumables with the laboratory workload.

Specialist staffing and supervision

Laboratory managers, chemists and technicians can support ongoing operations or specific assignments. Technical supervision and consultant support can be structured around the required workload and engagement schedule.



Chemical sourcing and screening

We help identify candidate raw materials and performance additives, develop test plans and compare results against agreed performance benchmarks and formation-related requirements. Qualification follows the intended application rather than supplier claims alone..

Qualification workflow

Define the requirement and acceptance criteria; identify candidate materials; plan and coordinate testing; evaluate compatibility and performance; document findings and qualification recommendations.

Reporting and inventory control

Our operational support includes technical reporting for drilling and completion teams, consumables tracking, shelf-life management and safety data sheet documentation.

Preventive maintenance and troubleshooting

We establish service schedules, investigate instrument faults and recommend critical spare parts. Support can cover HPHT vessels, ultrasonic measurement components, drives, heating systems and other equipment within the agreed scope.



Quality & delivery

Consistent procedures and a clear project workflow

Procedures and quality controls

We develop equipment-specific standard operating procedures and QA/QC routines to support consistent execution. Documentation can include sample preparation, operating steps, calibration checks, acceptance criteria and reporting requirements.

Audit and accreditation preparation

We help laboratories assess gaps, prepare supporting records and plan corrective actions for client audits and ISO/IEC 17025 accreditation preparation. Readiness support is tailored to the facility and its intended testing scope.

Data integrity and safe operations

We support traceable test records, clear reporting practices, chemical inventory controls and SDS availability. Safety requirements are considered during planning, equipment setup and operating-procedure development.



01 Assess and define

Confirm the laboratory purpose, test scope, facility constraints, workload and project priorities.

02 Design and source

Develop the layout and equipment requirements, evaluate suppliers and coordinate procurement planning.

03 Commission and prepare

Coordinate installation, calibration, acceptance activities, procedures and staff preparation.

04 Operate and improve

Support daily execution, reporting, maintenance and quality reviews; identify opportunities to improve workflow and expand capability.

Work with HADF

Discuss your laboratory requirements

Start a laboratory

Plan a new facility, define equipment needs and coordinate setup through commissioning and operating readiness.

Run a laboratory

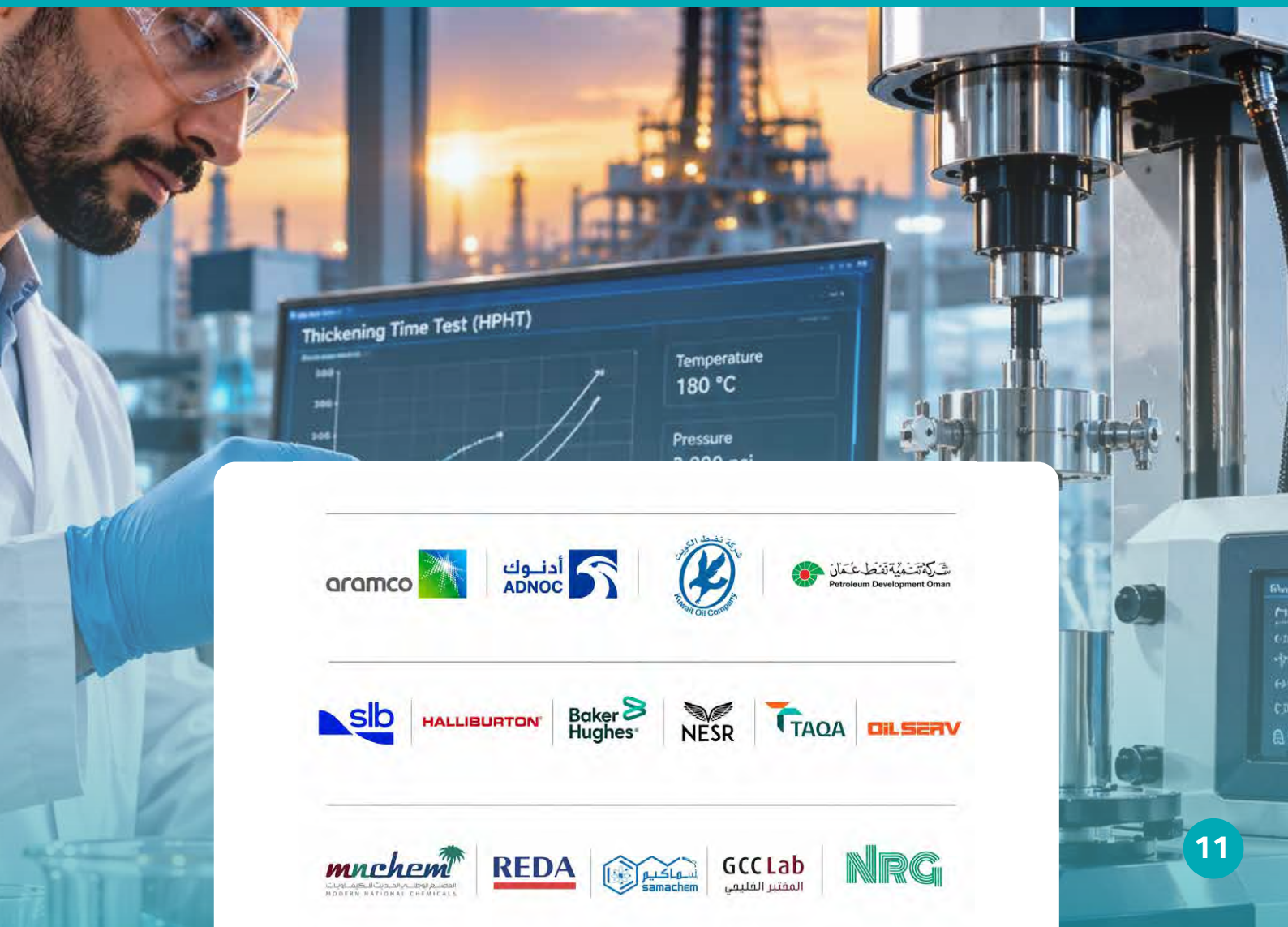
Bring together specialist personnel, operating procedures, reporting, inventory control and maintenance support.

Develop a laboratory

Review workflows, strengthen quality practices, resolve technical constraints and prepare for additional testing capability.

What to share with us

Tell us the laboratory location, technical disciplines, required tests, existing equipment, expected workload and target schedule. These inputs help us define a practical scope and delivery approach.



Where Precision Begins

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