

PREMIER COREX

COMPANY PROFILE

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ABOUT PREMIER COREX

COREX (UK) Ltd, recently acquired by Premier Oilfield Group (PREMIER COREX), is an international provider of analytical services for the oil and gas industry, helping to improve hydrocarbon recovery whilst mitigating risk for E&P operators.

PREMIER COREX delivers specialist services including Formation Damage Analysis, Enhanced Oil Recovery (EOR), Conventional Core Analysis, Special Core Analysis, PVT & Organic Chemistry, NMR, Reservoir Geology, Geochemistry, Simulation Software & Advisory Services.

With 40+ years of experience PREMIER COREX are today recognised as one of the world’s leading Independent Core Analysis providers delivering specialist services to the majority of leading oil and gas companies worldwide. Markets served include conventional and unconventional oil and gas reservoirs throughout Europe, Africa, the Middle East, Far East and Australia.

PREMIER COREX HISTORY

Established in the mid 1970’s, the last 40 years have seen PREMIER COREX build up a wealth of experience across the oil & gas industry. PREMIER COREX have analysed millions of samples and are recognised as one of the world’s leading Independent Core Analysis providers.

COREX (UK) Ltd acquisition of the Core Analysis business and assets of Fugro Robertson Ltd in 2004 increased the experience, innovation and resources available to the company. The combined resources of the two businesses allowed the company to enhance our services, invest in new technologies and develop new markets.

In 2016, COREX (UK) Ltd was acquired by Premier Oilfield Group, LLC (Premier). Premier Oilfield Group was formed in May 2016 under the private equity sponsorship of CSL Capital Management. Over the next six quarters, the team acquired and integrated six businesses, focused on the generation and interpretation of rock and fluid data. Further acquisitions by Premier were formed, including the assets of the ConocoPhillips Subsurface Laboratory located in Bartlesville, Oklahoma, and NSI Technologies, LLC (NSI).



The acquisition of COREX into the Premier Oilfield Group allows our group of companies to globalize our client base, expand in international territories, products and services and offer a more comprehensive solution worldwide.

The combined group of companies now has centers of excellence based in Aberdeen (UK), Cairo (Egypt) and Houston (USA) with front-line laboratories in Noida (India), Basra (Iraq) and recent growth in Abu-Dhabi (UAE) and Al Ahmadi (Kuwait).



PREMIER COREX MANAGEMENT SYSTEMS

PREMIER COREX are committed to ensuring that we meet both industry standards and the requirements of our clients providing the highest quality products and services in a safe and environmentally responsible manner throughout our worldwide operations.

We value people and teamwork, customer focus, quality, and accountability. We are committed to living those values every day, as we conduct our operations, make business decisions, and choose how to interact with others.

We're committed to our employees, each of whom brings a unique perspective and value to our organisation; to our customers, without whom we would not be in business; and to the communities in which we operate.

We're also committed to creating a safety-first culture and an incident-free workplace, so that our employees and guests return home safely each day. We provide our employees with extensive health, safety, and environmental training to aid them in achieving this vision – and we count on our clients' and vendors' participation and commitment to the same goals.

It is our firm belief that work-related illness and injuries can be prevented through effective HSE management, and we are continuously monitoring our performance and working to improve our policies, processes, and procedures.

We also understand that delivering consistent, high-quality data and analyses is a critical requirement in building and maintaining the trust of our clients, which allows us to win their business today and in the future. We are continuously working to measure and improve the quality of our operations.

PREMIER COREX strive for continual improvement in our QHSE performance. By having QHSE integral within our business operations, we have developed a strong culture of awareness and attention to detail that has resulted in exceptional QHSE performance.



QUALITY MANAGEMENT SYSTEM

Quality Assurance is a key element to delivery of our business and a major objective in meeting and exceeding clients' expectations. We work with our clients' to identify their needs, assess their customer acceptance criteria and endeavour to exceed their expectations.

Post project reviews and continuous measurement and monitoring against a full range of performance indicators ensure constant quality improvement in the pursuit of quality excellence.

PREMIER COREX is certified by The British Standards Institution (BSI) to Quality Management System – ISO 9001:2008 and complies with the requirements of ISO 9001:2008 for the following scope: The provision of analytical and consultancy services for Conventional and Special Core Analysis, Formation Damage and Geological analysis for the oil and gas industries.

Certificate # FS 506482.



SAFETY MANAGEMENT SYSTEM

PREMIER COREX aim to achieve and maintain zero accidents and zero reportable incidents in our work place. We continuously strive in achieving zero accidents to personnel and property. To prevent accidents, we manage safety in a systematic way and introduce simple and clear requirements that are easier to understand and follow. We work hard to keep our staff, visitors and contractors safe by focusing on compliance and engaging in any issues that can lead to unsafe behaviour. We focus on employees' health and continuous improvement of the work environment.

We conduct operations through ethical and efficient use of resources with minimum waste and damage to the environment. Our safety performance track record and the reliability of our services reflect the true value of QHSE.

PREMIER COREX are also certified by The British Standards Institution (BSI) to Occupational Health & Safety Management System – OHSAS 18001:2007 and complies with the requirements of OHSAS 18001:2007 for the following scope: The provision of analytical and consultancy services for Conventional and Special Core Analysis, Formation Damage, Enhanced Oil Recovery Analysis and Geological analysis for the oil and gas industries.

Certificate # OHS 593031.

PREMIER COREX EXPERIENCE

With more than 40 years of experience, PREMIER COREX have analysed millions of samples and are in the leading market position to give advice and recommendations to assist with client problems.

The COREX reputation is world renowned, focusing on innovation, excellent customer service and the development of key intellectual property. Premier is proud to build on the reputation that COREX has established over 40+ years, supporting clients throughout Europe, Africa, the Middle East, Far East, and Australia.

With a wealth of experienced and highly skilled staff we are committed to providing an efficient and world class service to all our clients. There is a broad spread of qualifications and vast amount of experience throughout the Premier Oilfield Group. Senior staff and technicians are qualified to graduate level or higher and personnel have been cross trained and have a versatile skill set. PREMIER COREX are well equipped to re-assign staff and equipment within its technical teams to meet and exceed our client objectives.

ADAPTING TO PROVIDE SOLUTIONS

In the UK North Sea, the PREMIER COREX Formation Damage Group has assisted every major operator and consults with many clients both in the UK and internationally advising them of Formation Damage issues both prior to field development and in remediation of damaged wells. The experience gained in the North Sea with its difficult and widely varying lithologies, pressures, depths and environments has meant that PREMIER COREX has had to be at the forefront of technology.

We have adapted under these ever changing conditions to provide quality data, as operators drill deeper in difficult lithologies using new and varied mud types.

Close liaison with clients and an ongoing education programme combined with regular laboratory visits have ensured that we have been able to provide solutions for horizontal wells, unconsolidated wells, High H₂S wells, fractured formations, HP/HT wells and numerous other problems that have been encountered.

RESEARCH AND DEVELOPMENT

Besides involvement in Research and Development with major operators and chemical companies, we are committed to continuing our own 'in-house' Research and Development. The results of past R&D has seen PREMIER COREX introduce key laboratory equipment to the international oil industry and also introduce several new and proprietary techniques into its own procedures.

LEADING THE WAY

PREMIER COREX is recognised as a leading service provider in developing innovative ideas and solutions that help drive improved recovery factors and is a fundamental part of the companywide strategy. We have previously received both innovation and technology awards as well as focus recognition awards from major global clients.

2016 saw PREMIER COREX presented with the 'Commitment to Innovative Use of Research & Development' award at the Northern Star Business Awards 2016. The award recognised PREMIER COREX for demonstrating a strong dedication to Research and Development in the area of energy, creating both commercial growth and competitive advantage.



In 2019, and officially recognised as an IP rich business for the fourth consecutive year, we celebrated being the only Oil and Gas company to feature within the top twenty of all categorised IP100 League tables, performing exceptionally in all five classes.



Securing 53% of international business through our intellectual property, our advanced understanding and execution of client requirements allows us to provide a world class customer service and has resulted in global clients such as Shell, BP, Saudi Aramco, Statoil, KOC, ADNOC, Chevron, Total, CNR, Petronas, and Conocophillips, using us as their number one service provider in the field of geological analysis.

TRAINING

Across the PREMIER COREX Group, training is seen as an important and integral part of the drive towards continuous improvement. Each staff member is allocated a training schedule which covers a wide range of topics from computing skills to total quality management. Technical development is also at the forefront of PREMIER COREX internal training schedules.

Staff members are encouraged to attend relevant technical conferences. Conferences are selected according to their suitability and particular benefit for each staff member. Furthermore staff members are encouraged to join relevant technical societies and organisations.

PREMIER COREX supports and encourages publications and presentations of technical papers and posters. A list of our publications are available upon request. We subscribe to many regular publications and magazines and all material is available in an extensive PREMIER COREX library.

All staff training is continually monitored and formally assessed annually. Staff members are expected to show measured improvements in both technical and other areas addressed in their own training schedule.

PREMIER COREX (COREX UK)

Aberdeen is seen as the centre for the oil industry in North West Europe and it is here the main PREMIER COREX laboratory is situated. Within minutes of Aberdeen International Airport, the laboratory in Dyce handles thousands of feet of core per year from the North Sea and around the world. The Aberdeen location ensures that PREMIER COREX has a presence as a leading service company in the industry. This is highlighted by the numerous visitors to the laboratory each year. PREMIER COREX has a presence at technical seminars and trade shows in the Aberdeen area and staff have the opportunity to mix with specialists from oil companies and service companies in the region.



PREMIER COREX provides clients a Core Analysis programme of preparation, testing and archiving, typically divided into two distinct sequential stages:

- Routine Core Analysis
- Special Core Analysis

ROUTINE CORE ANALYSIS SERVICES

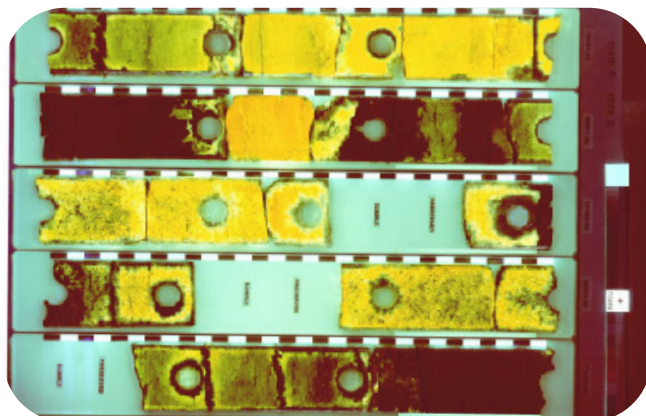
The Routine Core Analysis component of the sequence combines bulk core handling and processing, with statistically targeted point analysis, aimed at the quantification of a series of key petrophysical parameters. There is an emphasis on rapid turnaround to assist the client in the initial phase of formation evaluation and in the preservation of the rock material for future and complimentary examination.

Analytical Measurements

- Wellsite Core Handling and Preservation
- Resin Injection for Soft Sediment
- Preservation
- Specialist Sample Cutting (Liquid Nitrogen, Brine, Mineral Oil)
- Specialist Sample Drying (Humidity Ovens, Critical Point Drying)
- Spectral Core Gamma Log
- Fluid Saturation by Retort
- Fluid Saturation by Dean Stark
- Sedimentological Descriptions and Sampling
- Petrography
- Klinkenberg Permeability
- Nitrogen Permeability
- Helium Porosity
- Grain Density

Ancillary Services

- Core Slabbing
- Core Resination
- Core Photography in White and UV light
- COREX Core Fingerprint
- Core Storage
- Digital Photography and Database Management



SPECIAL CORE ANALYSIS SERVICES

Special Core Analysis forms the second part of a comprehensive Core Analysis programme. The focus is on multiple measurement types performed on a restricted number of samples from specific zones of interest. These samples are selected on the basis of the produced porosity, permeability and lithological values.

To design a Special Core Analysis programme PREMIER COREX offers the services of one of its in-house consultants to ensure the spread of testing formats is 'fit for purpose'.

The spread of measurement types available in PREMIER COREX laboratories across the world may be summarised under the following headings:

- Formation Factor
- Resistivity Index
- Wettability
- Relative Permeability
- Reservoir Condition Flood Tests
- Acoustic Velocity Measurements
- Water Sensitivity Tests
- Overburden Measurements
- Capillary Pressure Measurements
- Nuclear Magnetic Resonance (NMR)



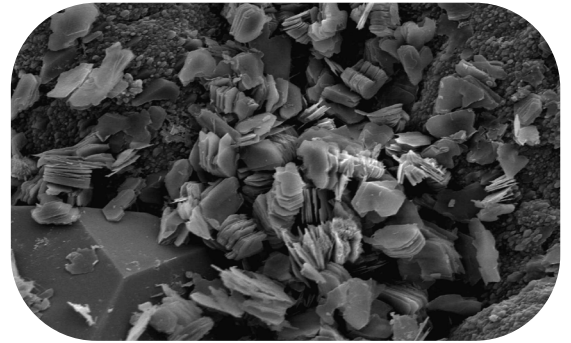
FORMATION DAMAGE AND STIMULATION TESTING

PREMIER COREX is keen to undertake studies in known damaged areas and to work with companies looking to increase production from previously drilled wells that are known to have been damaged.

The Formation Damage laboratory in Aberdeen now has nine independent Formation Damage flood test rigs. PREMIER COREX has established this expert niche in Formation Damage measurements by conducting tests at reservoir temperature and pressures to simulate the exact reservoir conditions.

The range of Formation Damage services PREMIER COREX can offer include:

- Improved understanding of multiphase fluid flow processes in the near well bore region
- Injection Water Quality
- Water Compatibility
- Scale/Corrosion Inhibitors; Biocide additives; Clay mineral stabilisers; Demulsifiers & Pour Point Depressants
- Drilling Mud Evaluation Tests
- Chemicals/Surfactant/Polymer Flooding evaluation tests
- Sand Production Evaluation
- Fracing Fluid Tests
- Migration of Fines Studies
- Microbial Screening



The results of such analyses can assist clients not only to maximise the absolute recovery but to vastly increase the economic recovery of a field.

INDEPENDENT MUD STUDIES

Many forward thinking oil companies and indeed some of the largest exploration companies in the world are now using PREMIER COREX to screen all drilling and other introduced fluids prior to commencing work in new wells. This minimises the possibility of Formation Damage occurring. Even simulating the effect of over and under balance drilling practices are giving clients vital information to allow them to select the most suitable mud to be used for a particular formation. PREMIER COREX is not associated with any mud company and therefore holds a unique position in the industry.

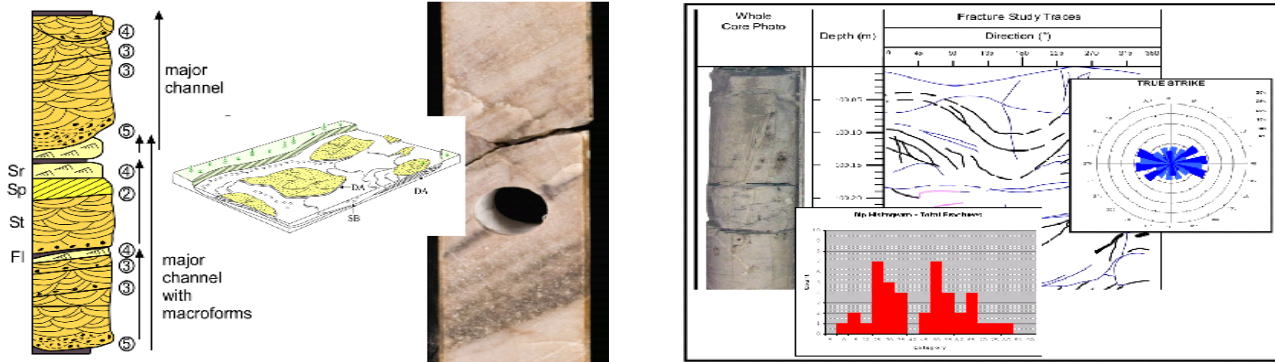


MICROBIAL SCREENING

PREMIER COREX has established itself in the field of microbiology with respect to the analysis of problems caused by sulphate reducing bacteria within hydrocarbon reservoirs. The growth of bacteria in the near wellbore region not only causes problems with the production of H₂S gas but these bacterial colonies can restrict oil production.

PREMIER COREX has also completed a four-year research project funded by the UK government in association with six major oil companies to research this important area of Formation Damage. The results are of major importance to every oil company in the world.

RESERVOIR GEOLOGY (GEOLOGICAL SERVICES)



The PREMIER COREX Reservoir Geology Group operates globally offering a complete range of geological, sedimentological, petrographical and consultancy services. PREMIER COREX provide fully integrated analysis of core or surface samples, both on siliciclastic and carbonate rocks with a view to evaluating the reservoir potential of given sediments.

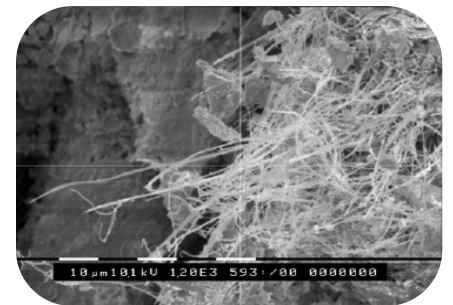
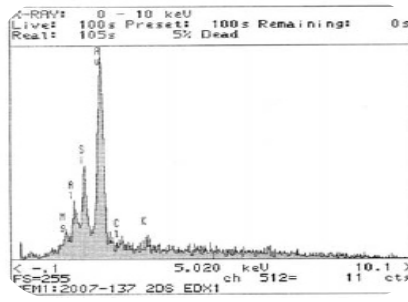
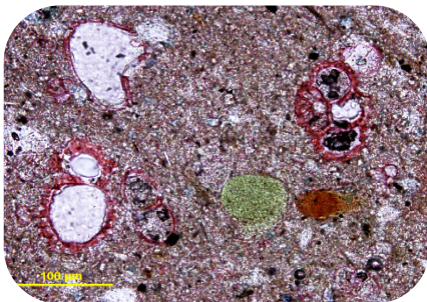
PREMIER COREX prides itself on providing high quality Reservoir Geology services and products tailored to the specific needs of the client.

The range of Reservoir Geology services PREMIER COREX offer include:

- Information about Exploration/Production Areas
- Core Logging and Interpretation
- Fracture/Paleo-direction Analysis by Goniometry
- Thin Section Analysis
- Rock Typing
- XRD/QemScan Analysis
- SEM Analysis plus EDAX Facility
- Stable Isotope Analysis and Organic Geochemistry



Services not listed may be provided on request. PREMIER COREX are always open to new approaches and demands that have to be faced in order to fully understand the characteristics and features of sedimentary rocks with respect to their reservoir potential. PREMIER COREX Reservoir Geology Group are highly enthusiastic about developing new procedures and techniques, working with clients to achieve the best results possible.



PREMIER OILFIELD GROUP - EGYPT

The PREMIER COREX Egypt office was established in 1987 and has expanded to include Routine Core Analysis, Special Core Analysis, Geological Services, Biostratigraphy, Geochemistry and PVT. It is the most diverse of the PREMIER COREX operations. With a staff of 50+ the laboratory is an integrated geoscience establishment where Egyptian operators have become accustomed to the quality of data they deserve.

PREMIER COREX Egypt has performed studies on wells throughout Egypt, North Africa and the Middle East and has become recognised and respected for its vast regional experience. This experience is surpassed by no other company in North Africa.

The following services are available in the Cairo laboratory:

Routine Core Analysis

- Wellsite Core Handling and Preservation
- Spectral Core Gamma Log
- Fluid Saturation by Dean Stark or Retort
- Nitrogen Permeability
- Digital Probe Permeability
- Helium Porosity and Grain Density

Ancillary Services

- Core Slabbing
- Core Resination
- Core Photography in White & UV light
- COREX Core Fingerprint
- Core and Data Storage
- Digital Photography and Database Management

Special Core Analysis

- Formation Factor
- Resistivity Index
- Capillary Pressure Measurements
- Amott Wettability Measurements
- Relative Permeability Measurements

Geological Services

- Sedimentological Descriptions and Sampling
- Petrography
- Computer Aided Goniometry
- Biostratigraphy

NUCLEAR MAGNETIC RESONANCE (NMR) ANALYSIS

PREMIER COREX's new NMR facility helps clients reduce tool and data uncertainty by providing quality data, benchmarking results, integrating data with NMR log interpretation and providing unique sedimentological analysis. PREMIER COREX's Maran Ultra NMR core analyser is the industry standard and the first commercial machine in North Africa.

NMR Services available at PREMIER COREX include:

- NMR Analysis and Sedimentological Correlation
- NMR Core Analysis Data Measurements
- NMR Log Calibration and Interpretation



PRESSURE VOLUME TESTING (PVT) SERVICES

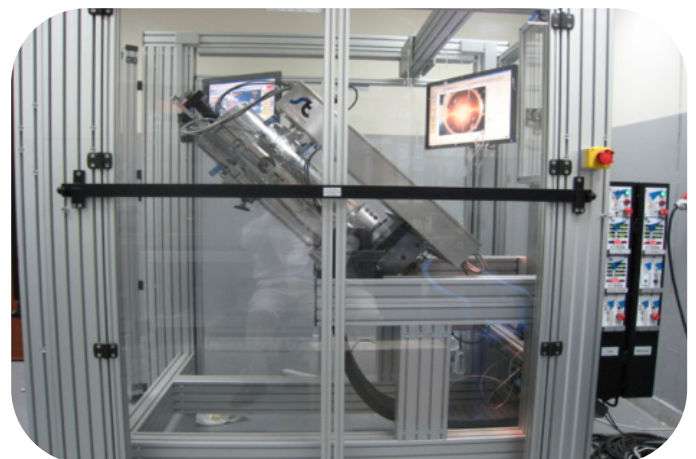
PREMIER COREX Egypt are experts in providing a tailor made PVT analysis plan for every client and every job.

PREMIER COREX pride themselves on the 24 hour, 7 day a week service they provide, allowing close to real time results to be supplied if required. This dedication in turn, allows early decisions to be taken and can lead to huge cost savings in rig time, also facilitating the decision whether to run expensive wire line tools.

Further to this, the Egypt Branch can transfer samples to PREMIER COREX owned cylinders in a timely manner releasing the expensive wire line chambers, saving rental costs and freeing up the samplers for further runs.

The following PVT Services are available in the Egypt Laboratory:

- Wellsite PVT sampling
- Black Oil Studies
- Volatile Oil Studies
- Condensate Studies
- Dry and Wet Gas Studies
- PVT Cylinder Rental and Storage



PREMIER COREX COMMITS TO MIDDLE EAST BY BRINGING NEW LABORATORIES AND CENTRES OF EXCELLENCE TO UAE & KUWAIT

Abu Dhabi, UAE

In Abu Dhabi, UAE we have established our Formation Damage laboratory to support operators and vendors across the region with drilling and completion solutions. Already boasting the largest independent Formation Damage facility in the world based in Aberdeen our International Formation Damage Group conducts simulations to re-create prevailing conditions in production and injection wells. The results of such evaluation can assist our clients not only to maximize the absolute recovery but to vastly increase the economic recovery of a field. We are undoubtedly leading the industry in these services and have seen increased demand across the Middle East over the last two years to address reservoir and improved hydrocarbon uncertainty, so it made sense for us to have a set up that could be accessed locally within the region. We are also very proud to bring our niche service offerings to the Middle East with our innovational geological interpretation and quantification workflow. By using digital rock (3D Alteration Modelling) technology on core samples to evaluate operational fluid sequence applications, our novel approach creates 3D models after near wellbore simulations and provides information for better recommendations to improve hydrocarbon recovery.

UAE Solutions Summary

- Core characterization
- Drilling mud, clean up and completion evaluation
- Productivity enhancement, stimulation and workover evaluation, including acid
- Injection and disposal water quality evaluation
- Scaling and scale inhibition evaluation
- Gas storage/carbon capture & storage
- Consultancy and Well Review
- Mercury injection capillary pressure (MICP)
- Compare and interpret results utilising extensive in-house database of over 2,500+ projects



East Ahmadi, Kuwait

In addition, our Premier COREX new core processing and measurement facility in East Ahmadi, Kuwait has been established as a result of a large contract award from Kuwait Oil Company. The contract not only provides the availability of analytical expertise to KOC but also opportunities for employment, technical training, and knowledge transfer in Kuwait and across the region. Our new high-tech laboratory will provide customised and timely analytical testing solutions in Routine Core Analysis and PVT laboratory services. We will also be continually expanding and innovating our laboratory in Kuwait and adding bespoke and innovative services and solutions to our portfolio.

With our laboratories in Abu Dhabi and Kuwait now operational, we are delighted to deliver our integrated services and innovative technologies to the Middle East and focus on the development of our new facilities into centres of excellence.



Premier Oilfield Group operate out of global laboratories based in Houston, Oklahoma City, Denver, Midland, Aberdeen, Cairo, Basrah, Kuwait, Abu Dhabi, and Delhi (Noida).

Please contact us for more information regarding COREX and Premier Oilfield Group international operations, capabilities and service portfolios.

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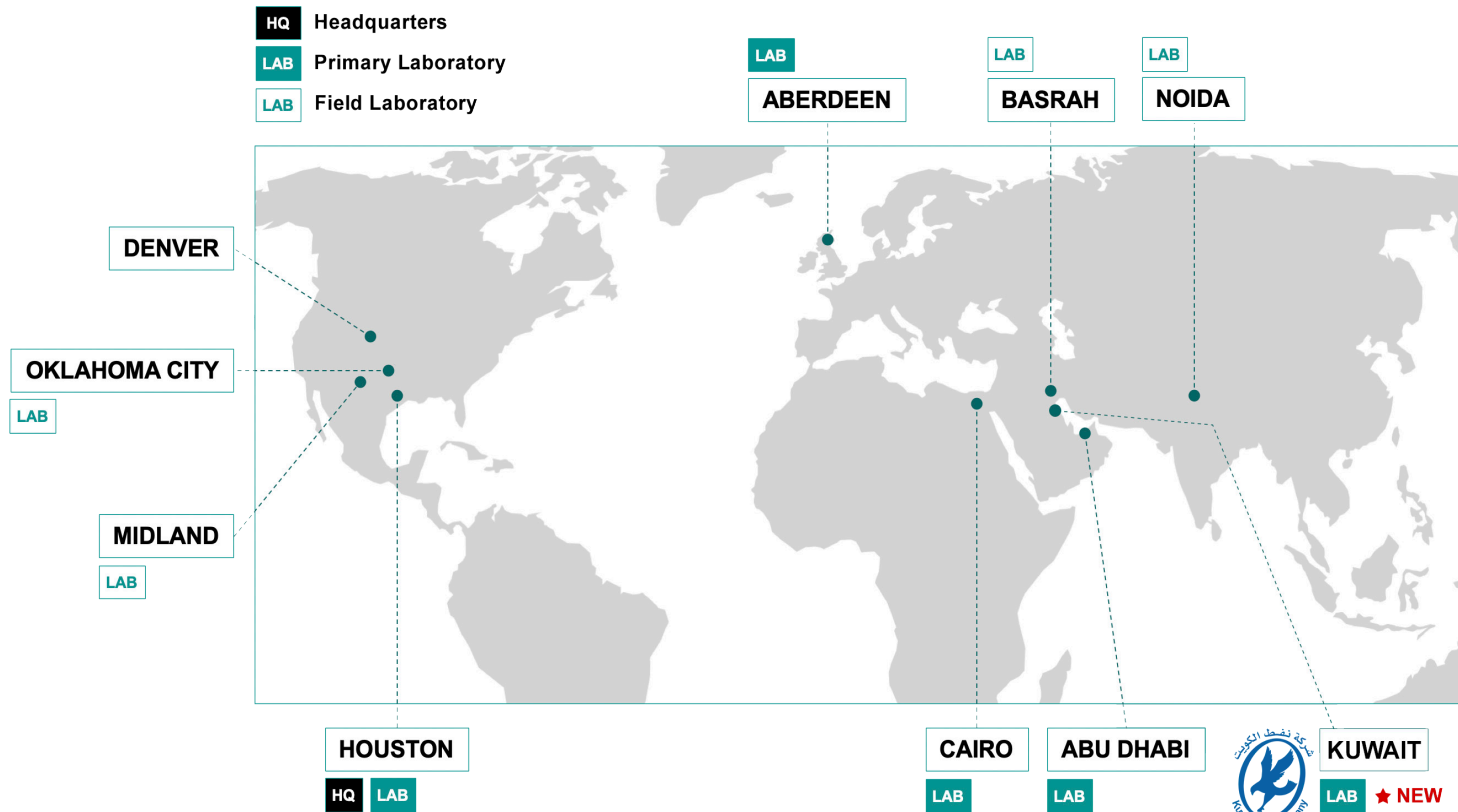
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Further information is also available on our website:
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