



WE ARE AT HOME ALL OVER THE WORLD.

Q'Max Delivers Innovative Technology to Provide Profitable Solutions to Drilling Operators






WORKING WITH THE BEST...

To fulfill our mission and realize our vision, we knew we had to start with people. To be the best, you have to surround yourself with the best, from experienced field personnel to PhD-level technical expertise.





Q'Max has grown from a half dozen oil field industry specialists in Western Canada to over 1200 employees in ten countries since the company's inception in 1993. The largest Canadian-based drilling fluids company world-wide, our success is due to adherence to our governing principles and ethics. Our primary objective is to positively affect the profitability of our customers. We develop fit-for-purpose solutions by using our extensive resources, including our operational skills, technical support resources, product knowledge, area and systems experience, and close working associations with local operators.

Q'Max offers the best of both worlds: a company with the size and capability of a major international service provider yet with the flexibility and decisiveness of a small independent. Q'Max corporate headquarters is located in Calgary, Alberta Canada. We develop complete solutions throughout our numerous R&D facilities, based on client's needs.

WHY Q'MAX...

Q'MAX VISION

"To be the "Go To" company."

Q'MAX MISSION

"We make a difference in the drilling process. Our goal is to become leaders in applications."

**Our goal is to be integral to our clients
business and be their partner of choice.**

CORPORATE PROFILE



Since 1993, Q'Max has been an innovative leader in our industry and has been committed to finding "local solutions to local drilling issues", whether onshore or offshore, in all of our operational areas. Our core businesses are drilling fluids, solids control and environmental waste management. We have the R&D, technical and operational power to proactively create ways to improve the success of our customers.

Our primary objective is to positively affect the profitability of our customers and ensure optimal value and benefit is achieved for them.

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SOLUTIONS INC.

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OPERATIONAL

Q'Max was created in 1993 based on the premise that we, as a company, exist to create profits for our customers; oil and gas operators who are determined to drill quality wells, and who recognize the important role complete fluids management and front-end planning play in achieving this objective. One of Q'Max's deliverables is the value that can be added to the customer's processes to help reduce the cost of drilling while maximizing production obtainable from a reservoir.

Capabilities & Deliverables



Your onshore and offshore and environmental drilling fluids solutions partner

Q'Max innovated a concept referred to as "Growth Partnering" that provides a win-win method of engaging with our customers. The resulting close working relationship aligns project objectives and allows Q'Max to utilize knowledge of the customer's processes, transforming this information into a superior ability to apply value for them. This common purpose and approach to value creation is translated into measurable results for our customers and a fair exchange of value.

Q'Max can also add value to the customer's processes by applying innovation to the complete spectrum of drilling fluids, completion fluids, solids control and waste management to individual wells or to large multi-well projects. The assets we employ that create value for our customers include our applied skills, knowledge, and the collective oilfield experience of the people who are proud to be a part of the Q'Max team.





OPERATIONAL Capabilities & Deliverables

Q'Max offers fully staffed comprehensive fluid and research testing facilities at all of our labs, worldwide. Our locations employ trained technical professionals including PhD's, P.Eng (reservoir) engineers, biologists, solids control equipment specialists and chemical engineers.



Calgary, AB



Colombia



Ecuador



Veracruz, Mexico



Villahermosa, Mexico

OPERATIONAL AREAS

Q'Max is an independent Canadian company. Internationally, we are the largest Canadian provider of comprehensive drilling fluids services and environmental solutions. Our client/partner list includes national and multinational companies throughout the world and is growing daily.

Since 1993, Q'Max has managed operations in many areas including:

- Western Canada (Saskatchewan, Alberta, British Columbia, Arctic)
- East Coast Canada (White Rose, Sable Island, Anticosti Island)
- Mexico (Altamira, Ciudad del Carmen, Villahermosa, Veracruz, Poza Rica, Reynosa regions)
- Ecuador
- Peru
- Colombia
- Greenland
- Georgia (Former Soviet Union)
- Kazakhstan (Former Soviet Union)
- India
- Albania
- Argentina
- Brasil

Q'Max has made significant investments in infrastructure in each of our operating areas including:

- Expanded and fully equipped laboratories in Calgary, Villahermosa and Bogota with HTHP rheology modeling capabilities.
- Q'Max designed and owned, OBM facilities with state-of-the-art mix tanks incorporating high shear eductors.
- 12 M investment in oil base cuttings cleaning technology.
- Mudstripper fleet with units in several countries increasing rapidly.
- New office, warehouse and mud plant in Villahermosa, Mexico. New mud plant in Ciudad del Carmen.
- Complete mud schools in Calgary and Villahermosa.
- Advanced field software for data co'



WE ARE AT HOME ALL OVER THE WORLD.

Q'Max has grown exponentially since its inception in 1993. We did not become the largest Canadian based mud company in the world by chance.

We believe our ongoing success is due to our adherence to our governing principles and ethics. Q'Max was founded on the belief that E&P operators would prefer to work with a "partner" rather than an adversary, and that technical ability, honesty, and integrity are paramount for success.

We have access to extensive resources in terms of operational skills, technical support, product knowledge, area and systems experience, total well cost reduction, and close working associations with operators.

Above all, we expect our people to do the right thing first for the customer in every day situations and we empower them to do so.

At Q'Max we believe we offer what the majority of our customers are looking for: the resources of a multinational and the customer focus of an independent. Think of us as a "big city with a small town feel."

A reference of locations can be seen on the inside cover of this brochure.

SOLUTIONS & Innovations

Q'Max Solutions offers complete drilling fluid service and supply to our customers.

Q'Max applies **INNOVATIVE TECHNOLOGIES** to provide profitable solutions to drilling operators & **"PEACE-OF-MIND"** solutions which address all stakeholders.

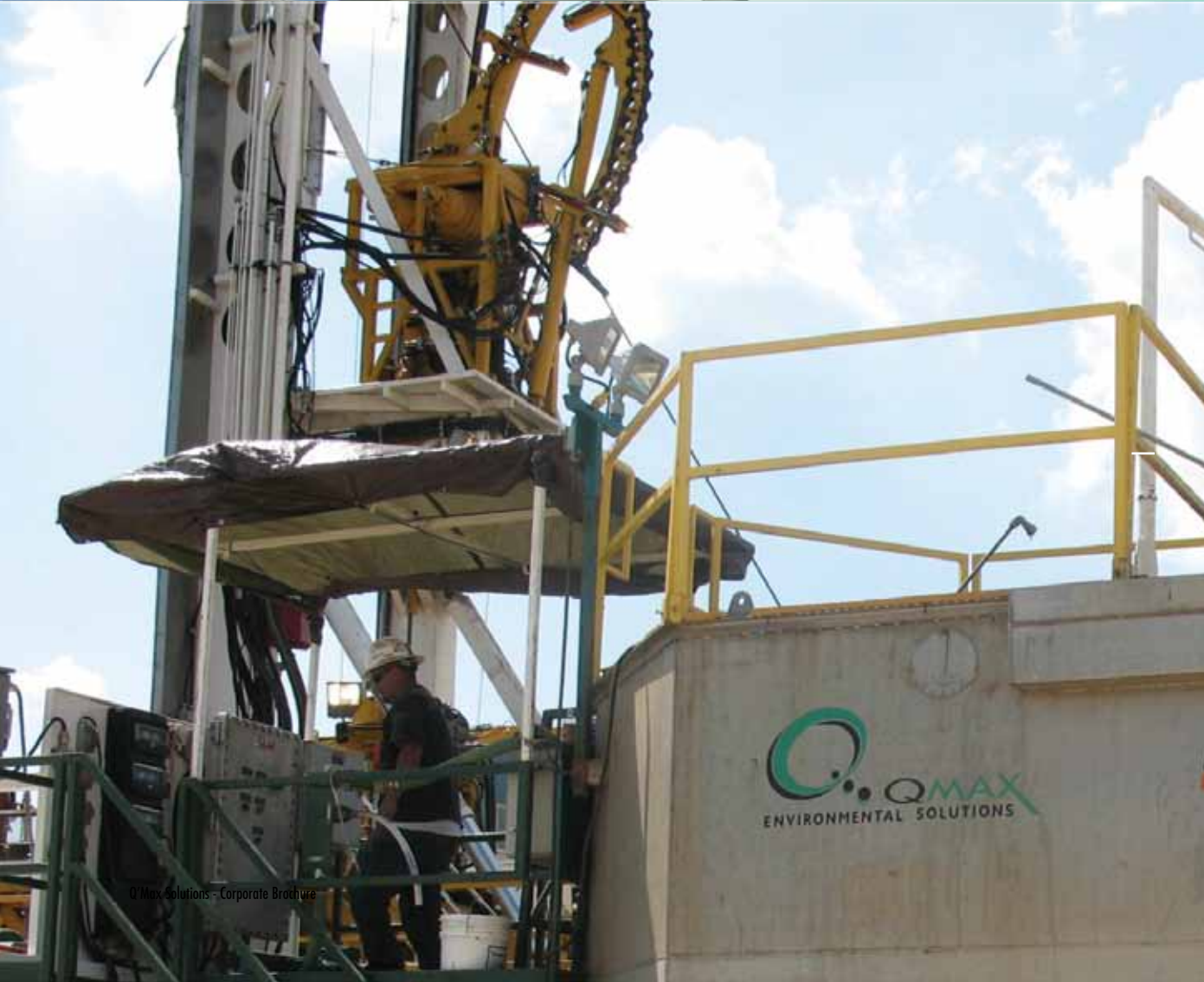
In addition, Q'Max will help our customers drill quality wells with service that includes:

- Research and planning
- Cost / risk analysis
- Benchmarking
- Laboratory analysis
- Continuous improvement processes
- Environmental / waste management planning and implementation
- Drilling fluid system design
- Solids control equipment
- Research and development of innovative drilling fluids solutions

Our sales, operational, technical services and on-site service personnel will work to enhance the success probabilities of each project by:

- Analyzing data from wellsites and using our extensive experience to continually improve service and reduce overall costs to our customers.
- Providing our customers with comprehensive summaries, detailing performance, product usage and cost, and providing continuous improvement recommendations.
- Providing up-to-date information in the environmental disposal of fluids and cuttings while drilling by staying current with governmental and industry regulations regarding drilling waste.







We help oil and gas operators **CREATE VALUE** in their drilling process.

When servicing a drilling operation, our drilling fluid supervisors will provide the following services:

- Implement and manage the drilling fluid system designed by our technical programming department and ensure all customer objectives are met or exceeded.
- Monitor and manage on-site drilling fluids products inventory.
- Monitor and test drilling fluids on a daily basis, or as often as is necessary, and adjust properties to meet operator's requirements. Some of the parameters consistently tested for are low shear rate viscosity measurements, flow properties, comprehensive hydraulics analyses, and drilling fluid chemistry.

All of our field representatives have a high level of knowledge in the theory and application of Q'Max Solutions' proprietary products and systems (for information on the systems Q'Max offers, please see section titled 'Drilling Fluid Systems'), and are trained in the safe handling and transportation of all products and systems supplied by Q'Max.

DRILLING FLUID PRODUCT GUIDE

Q'Max provides the complete spectrum of drilling fluids products including:

- Alkalinity control
- Bactericides
- Calcium removers
- Corrosion inhibitors
- Defoamers
- Emulsifiers
- Filtrate reducers
- Flocculants
- Foaming agents
- Lost circulation material
- Lubricants
- Shale control inhibitors
- Surfactants
- Thinners / dispersants
- Viscosifiers
- Weighting material
- Brines
- Other speciality products



Q'Max has developed several proprietary systems that are currently helping operators drill more cost effectively.

DRILLING FLUID SYSTEMS

- Carbobridge
- Q'Flow
- CBMax™
- Filtravis™
- Gel chemical
- Glycol systems
- Q'MaxDrill
- Micronaire™
- Mixed metal hydroxide (MMH)
- Natural gel - KCl
- Non dispersed GYP
- PolyTar™ HT
- QM-12 - potassium silicate
- Q'Clear™
- Q-Drill
- Q-Temp
- Q'Vert (OBM and synthetic OBM)
- Salt saturated
- SoluMax system
- Sterically stabilized PHPA
- Q'BAM
- Q'Plug
- FAPX
- Q'Core
- HybriDrill EDE
- HybriDrill ES
- AMPEP

Laboratories in Western Canada, Colombia, Ecuador, India and both Southern and Northern Mexico provide local solutions to local challenges. Q'Max prides itself in proactively developing solutions to deal with the challenges associated with new drilling technologies.

PROPRIETARY Q'MAX DEVELOPED SYSTEMS

- PolyTar™ system (patented SAGD system)
- SoluMax (resin / polymer WBM)
- HybriDrill EDE (proprietary SAGD system)
- HybriDrill ES (proprietary SAGD system)
- Q'Core (proprietary coring fluid)
- Q'Bam (proprietary WBM for offshore)
- FAPX (direct emulsifier WBM)
- Q'Plug

BENEFITS

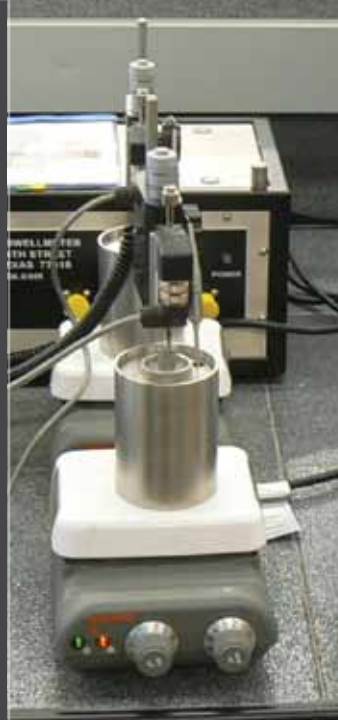
- Reduced drilling time
- Reduced overall drilling fluid costs
- Solutions to waste management issues
- Fit for purpose technologies

TECHNICAL SERVICES & Research and Development

Q'Max offers fully staffed comprehensive fluid and research testing facilities throughout all its business units. The following is a list of services provided to meet our customers' needs.

TECHNICAL SERVICES

- Tests on laboratory projects and drilling fluids:
 - Rheology
 - Fann iX77 Rheometer (HTHP rheology), OFITE 77 Rheometer (HTHP rheology)
 - Fann 90 (HTHP dynamic filter press)
 - Fann 35 Viscometer, OFITE Model 800 Viscometer, OFITE Model 900 Viscometer
 - Brookfield Viscometer for LSRV (Low Shear Rate Viscosity)
 - Filtration
 - API Low Pressure Filter Press
 - Modified API Filter Press with sand/rock bed
 - HTHP Filter Press
 - Permeability Plugging Tester (PPT) using discs of various permeabilities and metal slotted discs
- Emulsion Stability - Invert Systems
- Retort Analysis - % Oil, % Water, % Solids
- Particle Size Analysis of solids in WBM and OBM - Mavern Mastersizer Micro, CILAS
- Extreme Pressure and Lubricity Testing for WBM and OBM
 - EP Lubricity Tester
- Stuck Pipe Tendency Coefficient - Differential Sticking Tester Density
- Chemistry - complete mud chemistry, and others (example: Inhibitive Amine, Ammonium, Silicate, Sodium, Potassium, Sulfate, Sulfite, Sulfide, Nitrate, Chlorine, Phosphates etc.)
- Contaminants - example: Bacteria, H₂S (GGT), CO₂(GGT), Anionic Surfactants
- Temperature Stability (Hot Roller Ovens)
- Fluid Compatibility (emulsions, precipitates, wettability)
- Water Activity in OBM (Digital Hygrometer)
- Flash Point Tester for OBM
- Dissolved Oxygen content
- Moisture Content - digital hygrometer and moisture analyzer
- Microscopic Photography
- Glycol Content
- Cuttings Testing including:
 - Capillary Suction Time
 - Shale Dispersion
 - Water Activity
 - Cationic Exchange Capacity (Bentonitic Material)
 - Linear Swell Meter
- Brine and Water Analysis including:
 - Density
 - pH
 - Chemistry (Ion Selective Probes)



- Turbidity
- Conductivity
- Resistivity
- Soil Analysis
- Quality control in mud additives
- Mud Schools
- Customer Training
- Any testing required outside of our in house capacity can be performed through our numerous working partnerships
Examples: Microtox, XRD, Core Flow, Hydrocarbon content

RESEARCH AND DEVELOPMENT

Q'Max has taken a unique approach to drilling fluids solutions. Research and development is done in each of the areas where we operate. Instead of shoe-horning in a "one-size-fits-all" global product, Q'Max develops solutions specific to the challenges presented in each of these geographical areas. R&D is conducted in our local laboratory facilities, and supported by an international group of technical specialists called "The Wolf Pack" connected in real time across all Q'Max Business Units.

Drilling for heavy oil poses particular challenges such as: tar accretion; high torque and drag; borehole stability; mud foaming; high waste disposal and clean-up costs.

The PolyTar™ System, a patented technology, was specifically designed to meet these challenges. PolyTar™ is a naturally-formed direct emulsion in a fresh-water polymeric phase. Due to its unique design, it is the only fluid currently on the market that alleviates all operational challenges while allowing for on-site disposal of both liquid waste (pump-off) and solid waste/cuttings (MBC). The PolyTar™ HT is a continuation of the Polytar™ technology taken to higher temperatures. This system was designed for in-fill drilling in SAGD projects.

The HybriDrill EDE, a proprietary technology, was designed as a hybrid between the direct emulsifier technology and the encapsulating technology of drilling fluids for oil sands. This fluid offers the best of both worlds.

The HybriDrill ES, another technology of the Q'Max SAGD fluids family, offers excellent SAGD fluid characteristics through bitumen coating and shale/clay encapsulation with enhanced lubricity.

Q'MAXDRILL™ SYSTEM

A HPWBM, makes the perfect balance between bore hole stability, and environmental peace of mind. Extensively used by operators in North & South America and India, the Q'MaxDrill™ system makes BHS issues encountered in water sensitive formations a thing of the past. Its dual, chemical and mechanical inhibition mechanism are matched in performance only by its ease of disposal, especially in very sensitive environments.



CBMax™

The CBMax™ System is a proprietary system specifically designed to meet drilling challenges in coal, especially those experienced in horizontal wells.

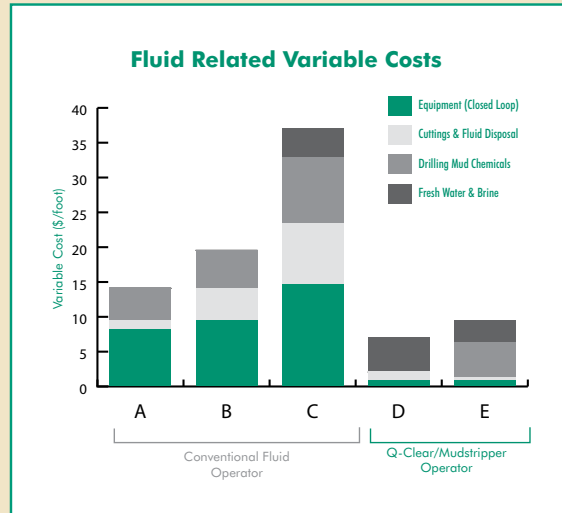
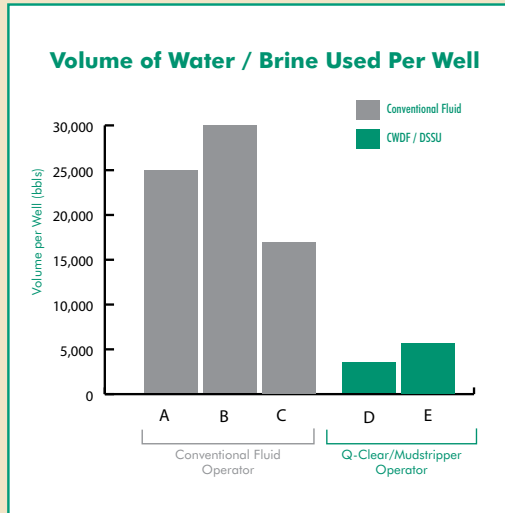
It is effective in either fresh or salt water mud and has been successfully used by many operators in CBM projects in Canada, USA and India.

One major operator indicated that their well drilling days were reduced from 30 to less than 7, and their AFE costs went from \$3MM to less than \$1MM per well.

At TD, after running liner, the system is easily broken with the addition of "Q'Break" to remove residual mud from producing cleats and fractures. A perfect fit for coal steam gas in Australia.



PERMIAN BASIN RESULTS

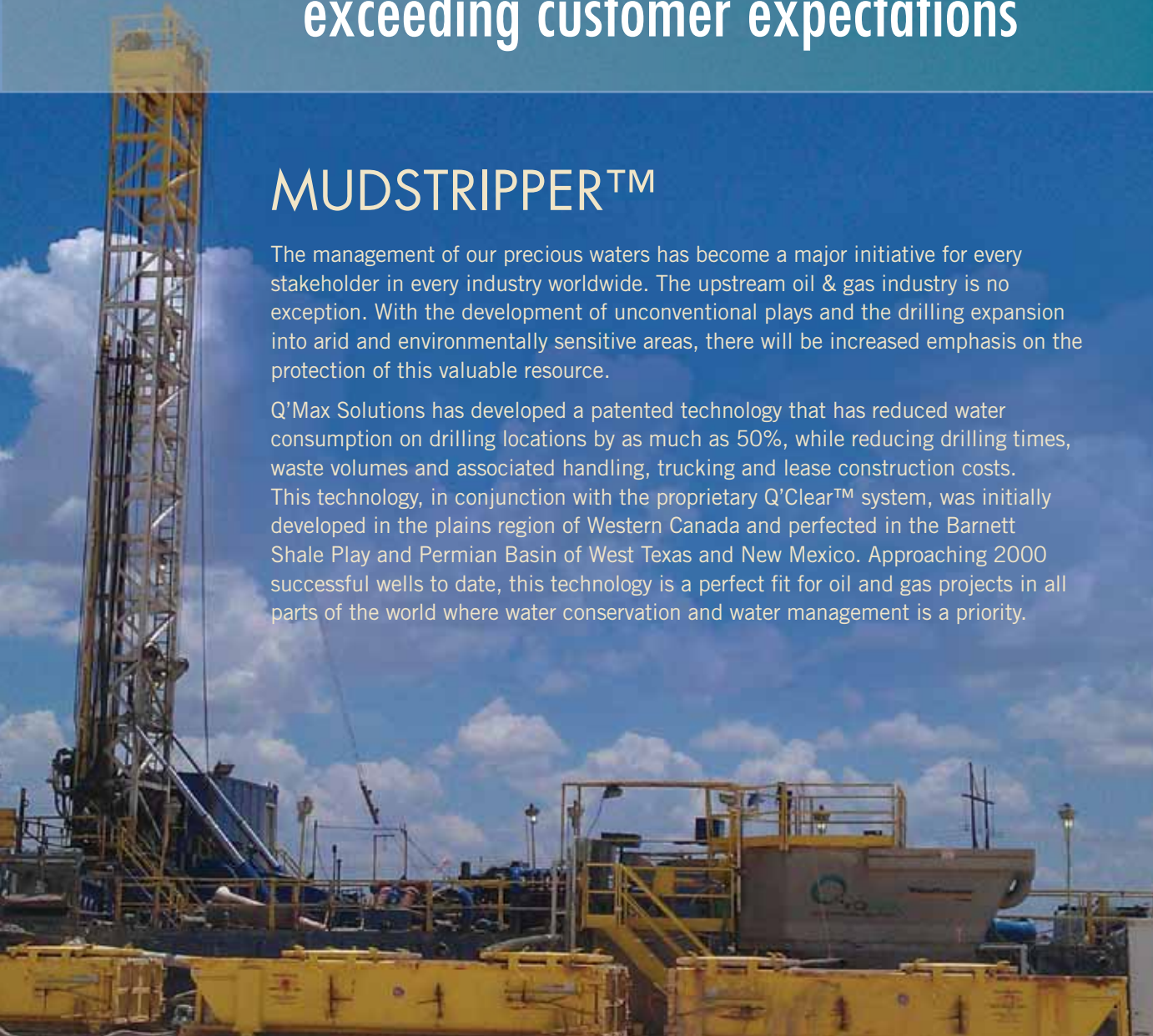


Q'Max Solutions is dedicated to exceeding customer expectations

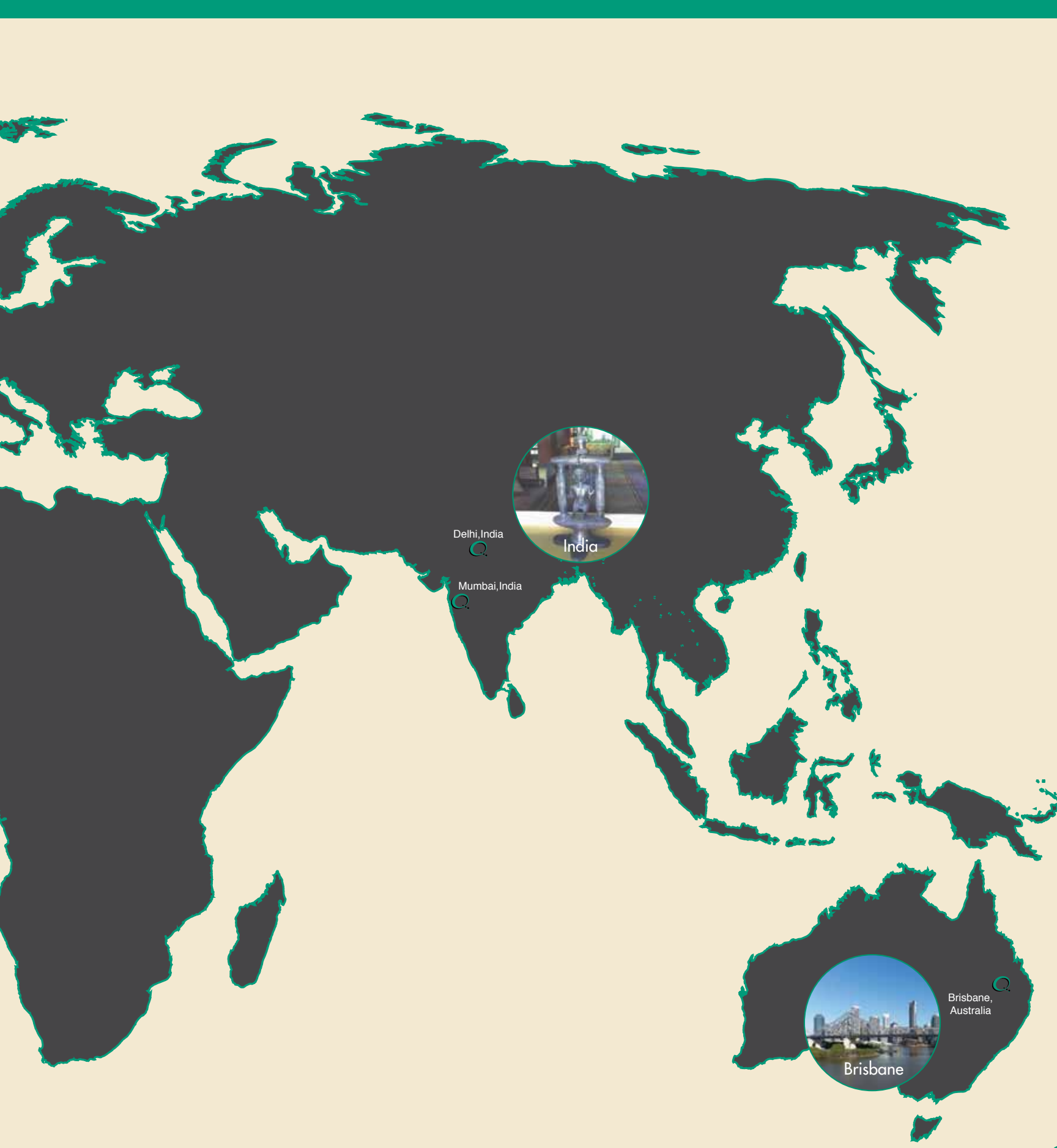
MUDSTRIPPER™

The management of our precious waters has become a major initiative for every stakeholder in every industry worldwide. The upstream oil & gas industry is no exception. With the development of unconventional plays and the drilling expansion into arid and environmentally sensitive areas, there will be increased emphasis on the protection of this valuable resource.

Q'Max Solutions has developed a patented technology that has reduced water consumption on drilling locations by as much as 50%, while reducing drilling times, waste volumes and associated handling, trucking and lease construction costs. This technology, in conjunction with the proprietary Q'Clear™ system, was initially developed in the plains region of Western Canada and perfected in the Barnett Shale Play and Permian Basin of West Texas and New Mexico. Approaching 2000 successful wells to date, this technology is a perfect fit for oil and gas projects in all parts of the world where water conservation and water management is a priority.







"We help oil and gas operators create value in their drilling process."



We help oil and gas operators
CREATE VALUE in their drilling process.





CONTACT US TODAY
We take what we know to the max...

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