

ADVANCED FLUID SOLUTIONS FOR COMPLEX DRILLING & CEMENTING CHALLENGES





Improve Performance, Predictability & Production.

Impact Fluid Solutions develops advanced additives that enable operators to overcome complex wellbore challenges. Our products are continually put to the test under the most demanding conditions, from deepwater operations to depleted and weak formations. In basins around the world, Impact consistently drives measurable performance improvements—helping operators minimize NPT, maximize ROI and increase ultimate recoveries.

10,000+ Wells
50+ Countries



■ Countries where Impact's additives have been deployed

SUCCESSFUL GLOBAL TRACK RECORD

Impact's additives have been proven successful across diverse geographies and geological formations, in both onshore and offshore basins.



Advanced Chemistry. Extensive Oilfield Experience. Additive Performance.

At Impact, we are proud of our reputation as a premier provider of drilling fluid and cement additives. By combining advanced chemistry with extensive oilfield expertise, we identify critical wellbore challenges and develop purpose-built solutions. The Impact team includes petroleum and geological engineers who know what it takes to plan and execute successful drilling and cementing programs. Our ISO-accredited Technology Center serves as both a hub of innovation and a base for providing expert customer support.

Impact is an agile organization that combines engineered solutions and technical services in ways that make it easy to do business with us. As a trusted partner to both industry leaders and smaller independents, we work hand in hand with customers to ensure our solutions meet their requirements. Our products are backed by laboratory testing, pre-job design services and field support—ultimately helping us deliver superior results and drive down costs.

TRUSTED BY GLOBAL LEADERS

Apache

PETRONAS

Continental
RESOURCES

eog resources

XTO
ENERGY

OXY
Occidental Petroleum Corporation

النفط
البحري
البحري

أرامكو السعودية
Saudi Aramco

ExxonMobil

PEMEX

+ ADDITIVE PERFORMANCE

Increased Production with Reduced Drilling & Construction Costs

An operator in Colombia was drilling a well through fractured shales and limestones, and into a particularly fragile reservoir section comprised of stacked sands and brittle caving shales.

Problem: Fluid losses in production zone

Solution: FLC 2000® added to drilling fluid in the 8½" reservoir section

RESULT:

- ▶ 20% production increase vs. offset well
- ▶ One casing string eliminated
- ▶ Five fewer rig days

Purpose-Built Products

Impact is a recognized leader in the science of Wellbore Shielding® and stabilization. That expertise drives innovation across our product lines, built on advanced chemistry that offers advantages unavailable from conventional fluid solutions. Around the world, our product mix differs as we tailor our solutions to the needs of the region and the requirements of our customers—combining broad capabilities with global experience to deliver a unique range of multifunctional high-performance additives.



Drilling

Impact's advanced drilling additives provide operators with effective ways to stabilize wellbores in challenging environments worldwide, delivering consistent and measurable results.

Wellbore Shielding® & Stabilization

Reduce NPT, Save Money & Optimize Production

Unlike products used to remediate losses, Impact's preventative solutions preserve wellbore stability throughout the drilling and cementing process—helping operators improve production as a result. These additives for drilling and workover fluids quickly form a low-invasion barrier within the wellbore, preventing induced fractures and sealing a wide range of pre-existing fractures.

Lost Circulation Solutions

Mitigate Costs & Risks Associated with Lost Circulation Incidents

Our lost circulation solutions seal a wide range of fractures to provide effective remediation, from seepage and partial losses to severe and total losses. These additives can be used in both oil- and water-based drilling and workover fluids.

Shale Inhibitors

Superior Performance with Environmental Protection

Our shale inhibitor additives are designed for drilling with water-based fluids in environmentally sensitive and densely populated areas. Our next-generation chemistry inhibits shale swelling while offering enhanced toxicity and biodegradation profiles compared with traditional glycols and amines.



Cementing

Cement bond integrity and zonal isolation can be compromised by losses during cementing and poor mud removal. Our spacer systems address these challenges to help deliver successful primary cementing operations.

Spacer Systems

Achieve Maximum Mud Removal

Impact's proprietary temperature-stabilized cementing spacer systems are engineered for optimized displacement efficiency. Our industry-leading loss-prevention cement spacer, utilizing our proprietary Wellbore Shielding® technology, has been proven in thousands of wells in troublesome formations worldwide.

Lost-Circulation Additives

Remediate Against Spacer Fluid Losses

Impact's lost-circulation cementing solutions enhance the effectiveness of our cement spacer systems when losses are problematic. These spacer fluid additives are effective at sealing a wide range of fracture sizes to remediate against partial to total losses.

+ ADDITIVE PERFORMANCE



\$1 Million+ Cost Reduction Per Well

An operator undertaking a 200+ well campaign in the Gulf of Mexico was drilling in fields with depleted zones and microfractures, causing wellbore stability issues including cavings, pack-offs and tight hole.

Problem: High torque and lost circulation in 12¼" sections

Solution: FLC 2000® added to drilling program for problematic wells

RESULT:
\$1 million+ average cost reduction per well



Industry-Leading Commitment to R&D

Impact is an R&D-intensive organization with a strong culture of innovation. Our scientists represent a large portion of the Impact team, and we invest substantially in our ISO-accredited Technology Center. There, experts across disciplines provide the diverse insights needed to solve complex wellbore challenges in basins around the world.

Data drawn from our experience in over 3,000 wells—as well as customer requirements—helps guide Impact's product development and drive our innovation. New products are rigorously tested in an exhaustive range of drilling environments, with results verified by third-party labs.

Our scientists also deliver comprehensive customer support, assisting with characterization and product selection, providing up-front engineering and planning services, and conducting pre-job testing. In the field, our technicians align lab diagnostics with real-world conditions to ensure optimal product use.

TECHNICAL SUPPORT

- ▶ Rock analyses, shale reactivity and formation damage studies
- ▶ Drilling fluid formulation and testing

FIELD SUPPORT

- ▶ Technical service engineers support introduction of products in the field
- ▶ Performance reporting



+ ADDITIVE PERFORMANCE



\$500,000 Cost Reduction Per Well

An operator drilling in the Eagle Ford Shale play encountered large amounts of gas, requiring increased mud weight and a three-string casing design.

Problem: Lost circulation, significant NPT and need for intermediate casing

Solution: STAR SHIELD® was maintained in the active system and used throughout troublesome formation

RESULT:

- ▶ \$500,000 cost reduction per well with the elimination of one casing string
- ▶ Reduced NPT and mud losses

Whether we're working with operators, fluid companies or oilfield service providers, we take the time to fully understand each customer's individual technical requirements before making a recommendation. To discuss how Impact can help solve your wellbore challenges, contact your regional sales representative.

impact-fluids.com
+1 713 913 4316



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Impact Fluid Solutions, LP
2800 Post Oak Blvd., Suite 2000
Houston, TX 77056
Phone: +1 713 913 4316