

# ADVANCED FLUID SOLUTIONS FOR COMPLEX WELLBORE CHALLENGES



DRILLING / CEMENTING / COMPLETIONS

# Improve Performance, Predictability & Production.

Impact Fluid Solutions develops advanced additives that enable operators to overcome complex drilling, cementing and completion 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.

**3,000+ Wells**  
**45+ Countries**



■ Countries where Impact's additives have been deployed

## TRACK RECORD SPANNING SIX CONTINENTS

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 fluid, cementing and stimulation 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, cementing and completion 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.

### + ADDITIVE PERFORMANCE

#### Increased Production with Reduced Drilling & Construction Costs

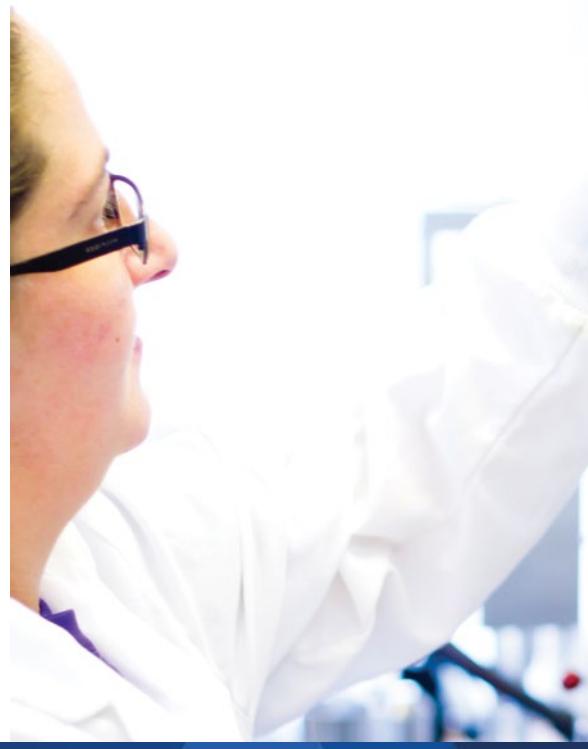
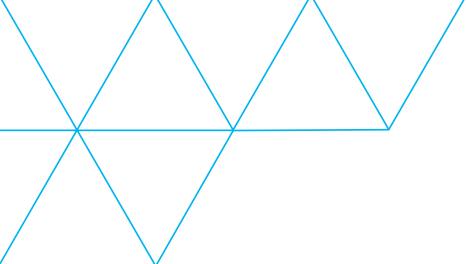
An operator in Colombia was drilling a well through fractured shales and limestones, and into a particularly fragile reservoir section comprised of stacked sands and brittle caving shales.

**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 completion process—helping operators improve production as a result. These additives for drilling, completion 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 oil- and water-based drilling, workover and completion fluids, and cement slurries.

### 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.

## Completions

Our stimulation chemical additives not only outperform, but are designed with flexibility in mind to be used in a wide range of applications.

### 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.

### Stimulation Chemicals

#### Fracture & Acidize More Effectively

Impact's fluid diverters are temporary diverting materials used in fracturing, refracturing, acidizing and sub-hydrostatic workovers. Whether you need isolation during a refrac, control during workover, improved fracture efficiency in your unconventional wells, or better plugging of larger wormholes and fractures while acidizing, Impact has the diverter solution for you.

### + 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 12½" 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.

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