



Contact

Fracturing and completion services

Choose the technique. Choose the diversion. Choose the solution.



Contact* staged fracturing and completion services maximize reservoir contact by offering the most efficient and effective services for each well. This portfolio of services offers a wide breadth of choices under four fundamental categories. Many of these choices can be enhanced with real-time measurement options.

Efficiency means different things to different people. Executives focus on optimizing production rates while reducing the total cost of operations. Field supervisors focus on staying within the AFE. Still others are concerned with important details like reducing cycle time, minimizing risk, and running a smooth operation. Reservoir and production engineers know that many of these concerns can be addressed by maximizing reservoir contact.

Effectiveness means to efficiently and cost-effectively maximize reservoir contact, which is accomplished through real-time knowledge and an integrated portfolio of complementary technologies. Applying the right combination of expertise, experience, and technology enables better understanding of what is happening in the reservoir, which simplifies and streamlines the decision-making process.

Reservoir stimulation is what Contact services are all about. We give you choices—a wide variety of proven technologies and techniques—then efficiently execute the operation to achieve maximum contact with the reservoir. Contact services are the key to achieving optimum production rates and maximum recovery.

CHALLENGING ENVIRONMENTS

- Conventional and unconventional oil, gas, and condensate reservoirs
- Sandstone, carbonate, shale, and coal formations
- Horizontal, deviated, and vertical wells
- Openhole and cased hole completions
- High-temperature, high-pressure, H₂S, and CO₂ environments



More choices... more effective reservoir contact

There is a Contact fracturing and completion service for every well, no matter where it is, no matter what kind of reservoir it is, and no matter whether it's producing oil, gas, or condensate. With strong regional experience backed by expertise and engineering support, our Contact teams can help you meet your operational and completion objectives. From tight sands in Rocky Mountain basins to tough fractured carbonates in the Middle East to sandstones in Siberia, in open hole or cased hole, Contact services can help you improve productivity and profitability.

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Four fundamental choices **eliminate complexity**



Wells completed with the Contact conventional category of services require separate trips into the well to perforate, fracture stimulate, and isolate each stage. An example of a conventional treatment is to perforate, fracture stimulate, and isolate a zone with a composite plug, and then repeat the process for subsequent zones. Techniques and products used in this category include limited entry, ball sealers, chemical diversion, composite bridge plugs, and sand plugs.



Wells completed with the Contact intervention category of services perforate/jet, fracture stimulate, and isolate multiple stages in one intervention.



Wells completed with the Contact permanent category of services fracture stimulate and isolate multiple stages in one pumping operation using completion-installed components.



The Contact dynamic category of services offers fluid-enabled and tool-free fracturing of multiple stages in one continuous operation.



Contact services can be enhanced with real-time measurements, such as the StimMAP* LIVE hydraulic fracture microseismic mapping service and ACTIVE* live downhole coiled tubing services. Using these unique technologies, Schlumberger can confirm fracture design compliance, refine the number of fracture stages, identify and control unwanted fracture height growth, confirm the effectiveness of real-time diversion procedures, and augment traditional fracture pumping measurements.

The choice is yours.

www.slb.com/reservoircontact

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