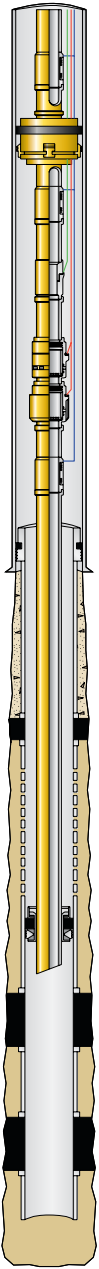


MPAS-*e*[™] Remote-Set[™] Packer System With *e*Trigger[™] Technology



Reliable and Cost-Effective Zonal Isolation in Horizontal Openhole Completions

The best way to eliminate skin damage, ineffective isolation, and other problems with cement jobs in production intervals is to eliminate the cement—and the expensive perforating job that goes with it. But to do that, you need a reliable and cost-effective zone isolation method for completions in open hole. MPAS-*e* Remote-Set Packer (RSP[™]) system with *e*Trigger technology is the ideal choice for selective zone isolation in open holes, especially in extended-reach wells.

MPas[™] Openhole Mechanical-Set Packer

MPas packer is the industry's only proven openhole, mechanical-set packer capable of sealing in irregular or oval wellbores, with thousands of successful runs in wells all around the globe. Run on the production casing or liner string, MPas packer plus the uniform production profile created by Baker Oil Tools' EQUALIZER[™] inflow-control devices enable flow in the annulus to be efficiently managed without the limits or risk associated with no isolation or with more complex isolation methods. MPas packer can be run on blank casing to isolate unwanted zones, on slotted casing to separate producing zones, or between screens in a gravel pack for zone isolation and to minimize hot spots and fines migration.

MPas packer provides better time-to-seal control and a wider hole-size range than swelling rubber technology. One-trip deployment and instant seal allow immediate testing following activation. The sealing element is effective in both water- and oil-based fluids. MPas packer also allows wider use of Baker Oil Tools sliding sleeves integral to the liner for selective production, without the reduced ID of an inner production string.

*e*Trigger Remote Packer Setting Technology

*e*Trigger technology is a simple and highly effective method of electronically activating the MPas packer. It eliminates the costs, complexity, and logistics of an inner string run for packer activation. *e*Trigger technology greatly simplifies the MPas packer setting process while lowering costs and saving time.

The *e*Trigger controller is programmed before running tool in the well. Programming the controller is easily done with a laptop computer. Once downhole, the controller evaluates well conditions in real time. When the *e*Trigger controller senses the temperature and pressure conditions it is looking for, it activates a timer. The timer allows a time interval specified by the operator to elapse before triggering hydrostatic setting of the packer. If conditions change, the timer can be reset or turned off. Once the packer is activated, the element is continuously hydrostatically energized and locked in to withstand downhole pressure differentials.



*e*Trigger[™] electronic controller replaces the MPas[™] box area with an electronic sub housing the programmable trigger assembly

The Perfect Combination for Openhole Isolation

Combining the industry's only proven openhole, hydro/mechanical-set packer with a simple and reliable electronic packer-setting controller has created MPAS-*e* RSP system with eTrigger technology—the ideal system for zonal isolation in extended-reach horizontal wells and other openhole applications. It is rated for downhole temperatures up to 300°F (149°C). MPAS-*e* RSP system with eTrigger technology eliminates cement and perforating, eliminates inner string runs, eliminates the uncertainties of reactive-element packer operation, and eliminates mistakes resulting from misleading surface data and inexperienced rig personnel.

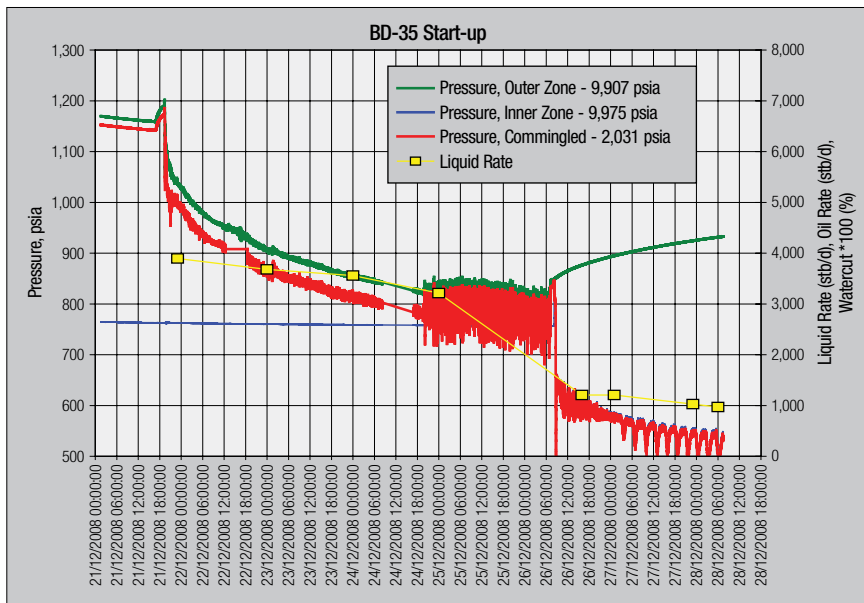
At Work in Qatar

Maersk Oil Qatar called on Baker Oil Tools to isolate zones in an extended-reach horizontal well offshore Qatar. Well BD-35 had a shoe depth of ± 10,800 ft (3292 m) and a TD of ± 25,000 ft (7620 m). To do the job, BOT used two 5-1/2-in. x 8-in. MPAS-*e* RSP systems. Other BOT technology on this job included a liner hanger packer completion system, inflatable external casing packer, stage cement valve, and 2 HCM™ sliding sleeves (one shrouded and one non-shrouded).

The project was completely successful and saved the operator approximately US \$1.5 million.

Increase Your Well-Design Options

MPAS-*e* Remote-Set Packer system with eTrigger technology can enable cost-effective well design options you may not have had before. And the system will reduce the costs of completing any openhole well. Contact us today to learn more.



The plot shows that good isolation was achieved. Initially, the outer zone was open and the pressure declined while the inner zone pressure was steady. Then the zones were switched, and there is a noticeable indication when the outer zone builds up and the inner zone pressure drops.



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