

Swellpacker® system configuration helps increase production exponentially

Location: Western Canada

CHALLENGE – An operator was developing a Bakken horizontal oil play in the Steelman Field, located in western Canada. What started out with only eight stages using a Halliburton Easywell® Swellpacker® system turned into 30 stages as production increased and confidence in the play grew.

Stimulation required a lower cost solution and potentially a 10,000-psi packer differential between intervals. Wells in this area are traditionally completed vertically, and production takes place after the stimulation reaches as high as 100 bpd. With the advent of horizontal drilling and the higher cost associated with drilling and completing some wells, increased production was a requirement.

With only eight stages, these wells would produce 800 bpd. Halliburton believed that if more rock was exposed and stimulated, the wells could produce up to 3000 bpd.

SOLUTION – Halliburton proposed running a 30-stage openhole completion with three Swellpacker Slip-On systems per interval for a total of 90 located in the horizontal section of the open hole.

The packers would be mounted on the customer's pipe on location reducing costs by avoiding installation on additional pup joints.

This three packer per interval configuration would also help increase the pressure rating with more sealing area. The combination of three one-meter Swellpacker Slip-On systems would increase the amount of rubber contact with the wellbore and increase the differential pressure for each compartment. This in turn would provide better isolation for stimulation of the formation and increase the exposure and amount of proppant pack in the source rock.

RESULT – Halliburton brought 90 oil-swelling Swellpacker Slip-On systems to the location. The pipe was prepared, and the slip-on packers were installed on the joints of pipe. Halliburton installed three packers each on customer pipe to create 30 intervals for this horizontal completion.

The efficiency on a project of this magnitude is unmatched. The Swellpacker systems were run and set to the correct depth taking only 34 hours to complete. Proper hole preparation by the operator and the efficiency of the Halliburton operations team was essential for completing this operation within such a short timeframe.



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**For more information on Swellpacker® systems,
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