

# SCALEGUARD shows potential to double production life

Using SCALEGUARD avoids costly remediation and production decline due to severe scale deposition.

## Manitoba, Canada

### The challenge

An operator targeting the Bakken/Spearfish formation of Manitoba, Canada, was producing from a 22-stage horizontal well, comprising an aggregate 130,000 pounds of natural sand proppant. After the well had been on line for approximately one year, the operator experienced a steep decline in production, which was quickly attributed to severe scale deposition. The only alternative was to pull the pumps and drill out the well to remove the scale deposits, which dramatically reduced the overall value of the producing asset.

### The solution

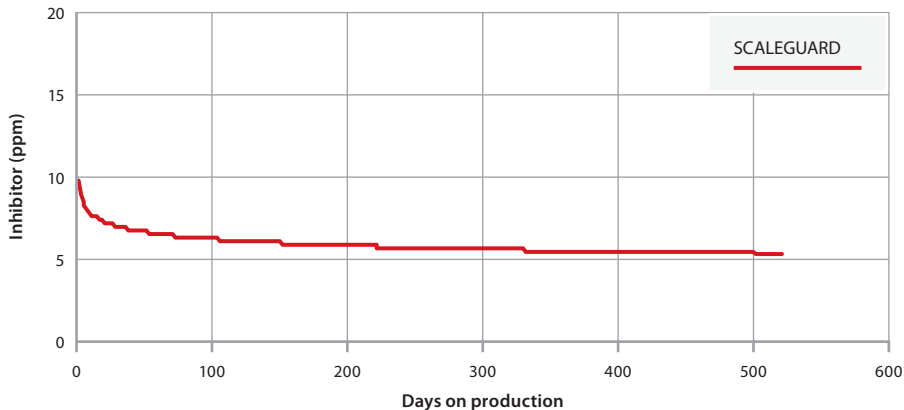
Following a subsequent CARBO evaluation that included the specific well characteristics and produced water chemistry, the operator modified its stimulation strategy accordingly. To reduce the near-wellbore pressure drop, the sand proppant was replaced with 20/40 CARBOECONOPROP® low-density ceramic proppant.

To treat the produced water before it reached the wellbore, and thereby prevent scale from forming, the client pumped the SCALEGUARD® proppant-delivered scale-inhibiting technology.

### The results

In addressing this particular stimulation program and well characteristics, SCALEGUARD technology performed as designed and prevented scale remediation after 12 months of production and continued treatment for multiple years. By preventing the near-wellbore buildup of scale and keeping downhole equipment free of deposits, SCALEGUARD technology helped in maintaining productivity and avoided unnecessary costly remediation.

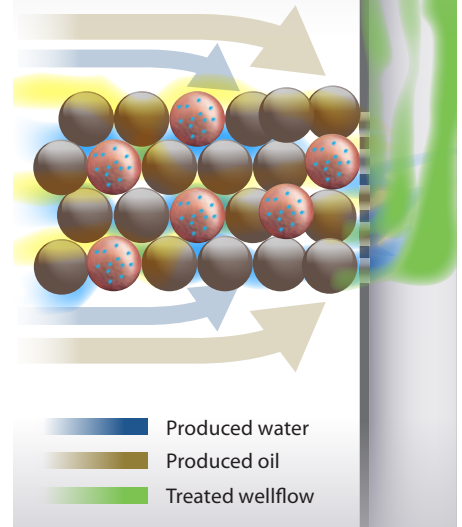
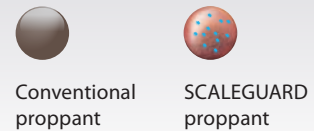
**SCALEGUARD maintains above the minimum inhibitor concentration for 500+ days, avoiding costly remediation**



### Well Data

**Location:** Manitoba, Canada  
**Operator:** Independent operator  
**Well type:** Oil  
**Formation:** Triassic Spearfish  
**Initial stimulation design:** 22-stage, 58.3 metric tons natural sand proppant

Scale-inhibiting chemicals infused within the proppant are released into the fracture only on contact with water to deliver highly efficient production assurance.



**For more information contact:**

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