

TECH REPORT

SREDNEBOTUOBINSKOYE FIELD
EASTERN SIBERIA

Production interval diameter	8½ in
Application challenge	Trap rock drilling
Formation characteristics	Hard rock

Background

Working in the Srednebotuobinskoye field of eastern Siberia, Taas-Yuryakh Neftegazodobycha wanted to drill the 8½-in production interval in the Tolbachan horizon, which includes trap rock. The hard trap rock causes catastrophic wear to conventional PDC and roller cone bits. Drilling the trap interval, including tripping the BHA for bit changeout, consumes 60–80 hours, or 38%–50% of the total run time. Taas-Yuryakh Neftegazodobycha sought a robust drill bit to drill from the casing shoe to the bottom of the trap in a single run without incurring NPT or bit failure.

Technology

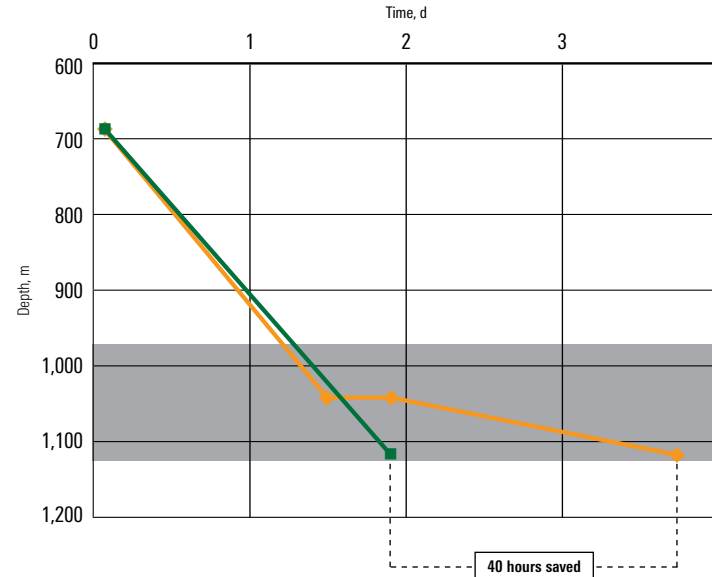
StingBlade* conical diamond element bit

SMITH BITS

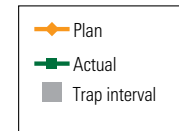
A Schlumberger Company

StingBlade Bit Enables Drilling Trap Interval in One Run, Saving 40 Hours Versus AFE

Conical diamond element bit helps Taas-Yuryakh Neftegazodobycha achieve record drilling performance in hard trap, eastern Siberia, Russia



The StingBlade bit enabled Taas-Yuryakh Neftegazodobycha to drill the trap-inclusive interval in a single run, saving the operator 40 hours versus the planned drill time.



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