

Bottomhole temperature, degC [degF]	220 [428]
Bottomhole pressure, MPa [psi]	2.4 [350]
Pump-setting depth, m [ft]	430 [1,410]
Casing size, in	11¾
Motor OD, mm [in]	142.75 [5.62]
Pump OD, mm [in]	136.65 [5.38]

Background

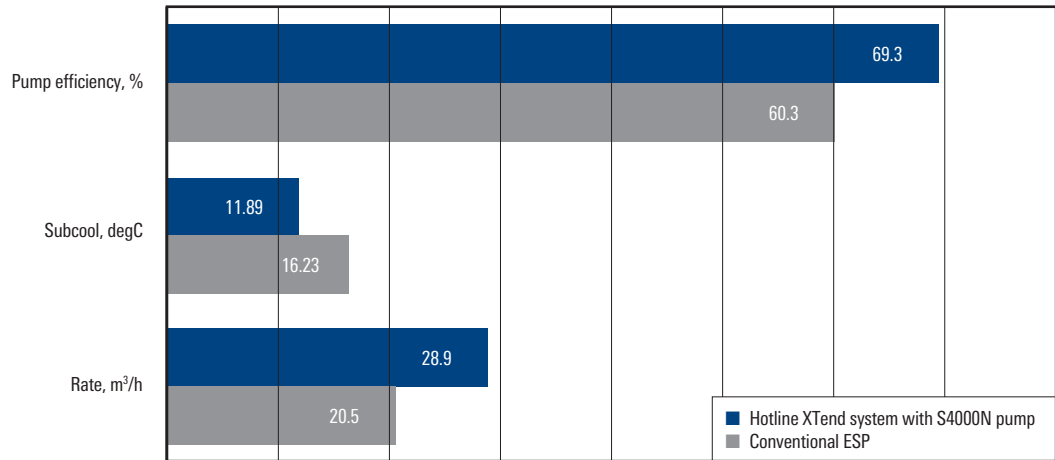
Unexpected ESP shutdowns in a SAGD well prompted a search for performance improvement. Analysis determined that the SAGD process delivered multiphase production (oil and steam) to the ESP system, destabilizing the system and impairing performance.

Technology

- REDA Hotline XTend* extended-capability high-temperature ESP system
- S4000N mixed-flow pump
- Bottom-feeder gas separator

Hotline XTend System with S4000N Pump Improves SAGD Production by 41%, Canada

Integration of ESP system, pump, and gas separator reduces drawdown, improves efficiency, and minimizes shutdowns and deferred production



Schlumberger integrated a Hotline XTend system with a S4000N pump and bottom-feeder gas separator. The solution reduced well drawdown by 27%, increased well production by 41%, improved pump efficiency by 15%, and minimized unexpected shutdowns and associated deferred production.

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