LIFTING SOLUTIONS

Reducing Rod Failures in an RRP Application with KeBond™ Endless Rod®

CHALLENGE

In Estevan, Saskatchewan, a client was dealing with repeated rod failures in a Reciprocating Rod Pump (RRP) application. The continuous rod surface was experiencing significant corrosion pitting, and that damage was leading to corrosion-initiated rod fatigue failures. Each failure meant more downtime, lower well productivity, and higher operating costs because the well required frequent fish and repair work.

SOLUTION

Lifting Solutions identified corrosion pitting as the main factor accelerating rod fatigue failures. To address this issue, the team proposed KeBond Endless Rod, a bonded polyketone barrier coating applied to the rod surface. The coating prevents corrosion, as long as it is intact, helping reduce the need for rod repairs.

PERFORMANCE

The original bare continuous rod string first failed after 259 days in operation and then failed again just 22 days later. After that, the string was pulled and replaced with KeBond Endless Rod.

Since the change, the rod has operated for 583 days and counting with no rod failures. When it was later pulled and inspected because of a tubing failure, the KeBond coating showed no notable wear and remained fully intact.

METRICS

Surfaced KeBond after 174 days in operation (pulled due to tubing failure).

SUCCESS

KeBond Endless Rod gave the client a more reliable rod string in an application where corrosion had been driving repeated failures. Compared with the original bare rod string, which first failed after 259 days, the switch to KeBond increased runtime to 583 days and counting with no rod failures, representing at least a 125% improvement in runtime. For the client, that meant a more reliable operation, less repair-related disruption, and more consistent production.

Experience Performance. Artificial lift products and services that consistently outperform the market and reduce OPEX.
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