

Centralizers

KUDU Sucker Rod Centralizers

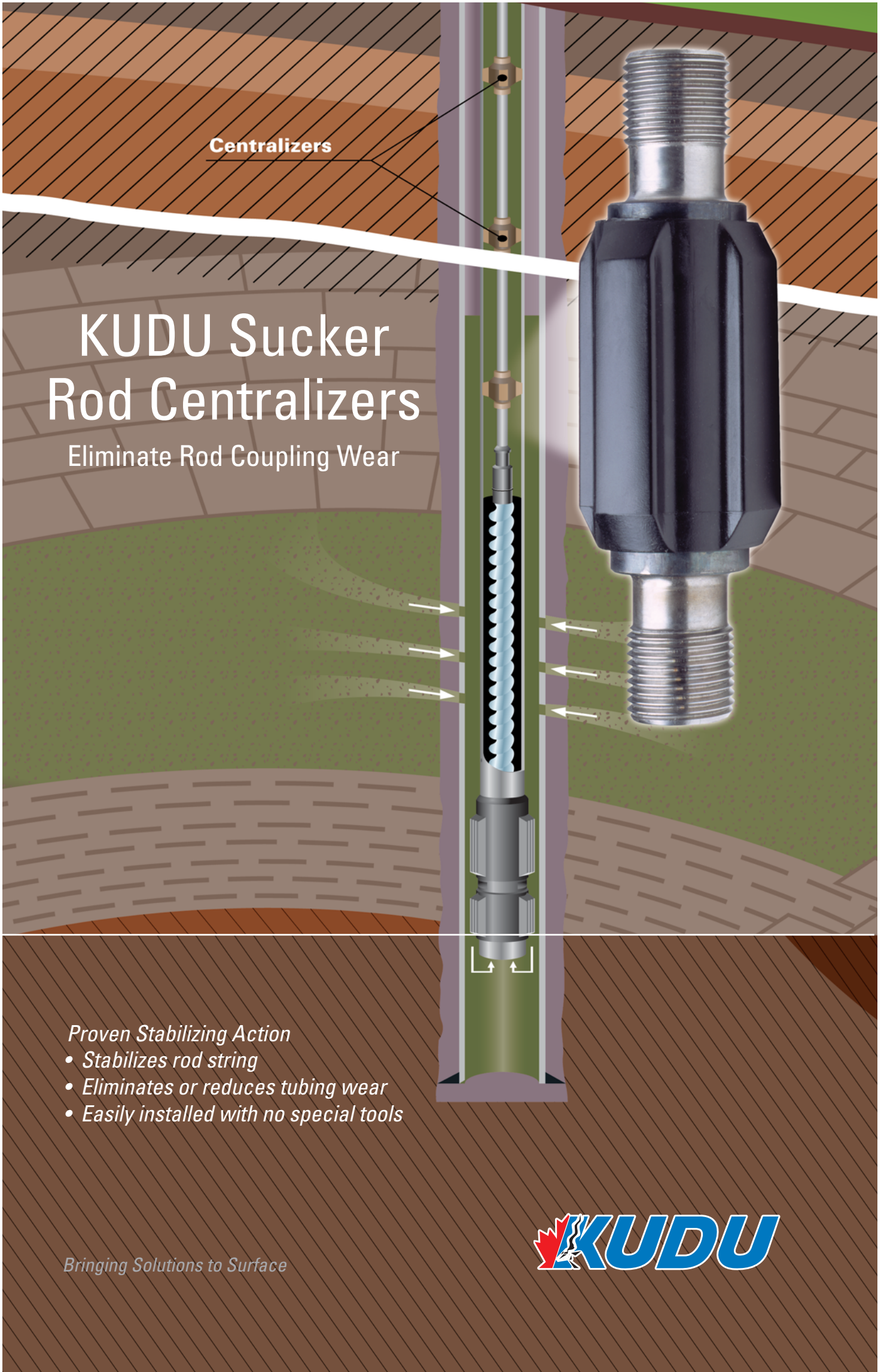
Eliminate Rod Coupling Wear

Proven Stabilizing Action

- *Stabilizes rod string*
- *Eliminates or reduces tubing wear*
- *Easily installed with no special tools*

Bringing Solutions to Surface

 **KUDU**



KUDU Sucker Rod Centralizers

KUDU's Sucker Rod Centralizers eliminate rod coupling wear and utilize a non-rotating sleeve design that is tapered for rod tripping. The Sucker Rod Centralizers reduce torque in deviated wells and lower work over frequency. Rotational rubbing and rod wear are reduced or eliminated by using KUDU's non-rotating Centralizer.

In abrasive conditions KUDU recommends centralizing the sucker rod string wherever the coupling or tubing loading exceeds 25 lbs. In non-abrasive conditions, KUDU recommends centralizing wherever the loading would exceed 50 lbs. Centralizers should be installed to keep the loading below 100 lbs on each centralizer.

KUDU also recommends the use of a minimum of five non-rotating Centralizers on vertical wells to prevent the following two issues:

1. The eccentric motion of the rotor from being transmitted to the rod string. One centralizer should be placed twelve feet ABOVE the rotor head plus one on top of the each of the two full sucker rods.
2. Any wobble in the rod string from being transmitted to the polished rod, which reduces the life of the seal or stuffing box, place one centralizer at the bottom of the polished rod and one at the bottom of the adjacent sucker rod.

Features:

- Regular Spindle and API Coupling for normal service (low sand). Spindle is made of 4140 HTSR tool steel, heat treated, stress relieved and induction surface hardened to resist abrasion.
- Chromed Spindle and Chromed Tipped Rod Couplings for severe conditions (high sand).
- The Sleeve is made of Kevlar-Nylon co-polymer. It is tough and hard enough to resist sand embedment.
- Impervious to aromatics and H₂S, with a temperature rating of 120°C (250°F).

Precautions

- Sleeves can wear out rapidly in severe conditions if over loaded.
- Over loading in abrasive conditions can wear out spindles, even if they are chromed.
- Unchromed couplings can wear out rapidly at high speed with low sand cuts or at nominal speed with high sand cuts.
- Rod count will change with large number of centralizers installed (add to string length).

KUDU's Complete PCP System

KUDU provides the perfect fit for any environment with the complete package including the PC Pump, KUDU Drivehead, Power Unit and the PCP Well Manager. KUDU also offers a high temperature package, perfect for SAGD and CSS applications. It features an all metal Progressing Cavity Pump capable of withstanding the extreme downhole conditions of thermal recovery. KUDU's customer focused approach encompasses exceptional design, superb service and technical training for customers.



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