



PEMBINA PIPELINE USES e9 TREATMENTS' NANOTECHNOLOGY-BASED SURFACE TREATMENT

PEMBINA PIPELINE REDUCES DOWNTIME AND RESOURCE DEMAND

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Paraffin wax is a naturally occurring byproduct found in various hydrocarbons. If not managed properly, it can cause significant impacts to oil and gas operations. It has the potential to drop out of solution and deposit on pipe walls, processing equipment and the surfaces of measurement devices.

Pembina Pipeline Corporation is a leading energy transportation and midstream service provider serving North America's energy industry for more than 65 years.

In a few of its locations, Pembina observed a unique paraffin wax forming with extremely hard properties when crude oils were blended with butane resulting in a shutdown of the pipeline. These shutdowns cause potential revenue loss to the producer, as well as a considerable draw on Pembina resources to clean, re-install, prove or validate the measurement equipment.

Recently, e9 Treatments introduced Pembina to its Pro Series products as a potential solution to mitigate issues with this paraffin wax.