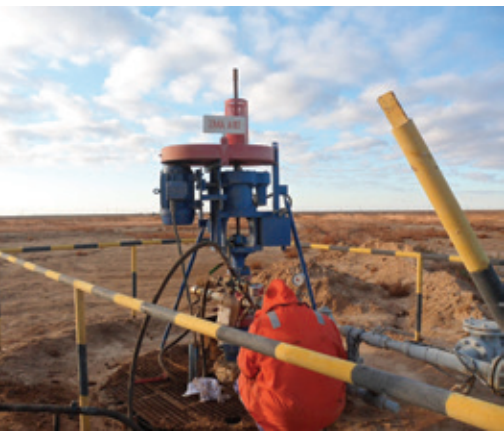




# Green Technology for Wax Removal and Prevention



OILCONTROL

PARALAX<sup>®</sup>

## Eliminate Wax Deposits from the Wellhead to the Refinery

When paraffin wax develops and hardens at any point along the oil production process, it affects efficiency, production and revenues. Wax creates problems at the wellbore, inside tubing, at perforations, along pump strings and rods, and throughout flowlines and pipelines. PARALAX® offers a safe and environmentally friendly way to remove wax and keep wax from returning.

PARALAX® controls wax buildup on:

- Pumped, gas lift and flowing wells
- Flowlines and production facilities
- Storage tanks, rail cars and tankers
- Gas condensate facilities and pipelines
- Land and subsea pipelines

## Reduce the Impact on Production Cost and Equipment

Removing wax deposits and keeping equipment wax-free helps maintain production efficiency and limits damage to equipment. Production does not have to stop when using PARALAX® and operators find that the product pays for itself in less than two weeks and sometimes as soon as 2 days.

- Improved production
- Generate a return on investment within 1-2 weeks
- Lessen pump load and improve production
- Fewer and easier cleanout treatments
- Limit workovers and bottlenecks
- Fewer pump hang-ups
- Free up man-hours for other activities



## A Customized Solution for Wax Free Pipelines

Our team of specialists work with you to customize a PARALAX® treatment for your unique conditions. We work one-on-one with you because PARALAX® is different than traditional dispersants, solvents or inhibitors. It is based on proprietary nanotechnology that reacts differently with wax buildup. Activated when mixed with crude oil, PARALAX® works as a solvent to remove wax layer by layer and create a wax-repelling environment that can last for 2 to 3 months with ongoing maintenance.

- Customized treatment with technical support and training
- Maintain wax-free environment for 2-3 months
- Reduce time needed for wax removal treatments
- Less frequent treatments

The PARALAX® team works directly with you to customize the treatment for your specific conditions.



“ PARALAX® cleared a subsea oil pipeline in the Gulf of Mexico, where past treatments had been ineffective.

## A Safe and Environmentally Friendly Solution

PARALAX® is not flammable, nontoxic, nonvolatile and safe to handle. Spills can easily be washed down with no special handling requirements. Compared to traditional methods of wax management like acidizing, solvent washing and hot oiling, PARALAX® is safe for the environment.

	PARALAX®	Acidizing	Solvent Washing	Hot Oiling
Corrosive	SAFE	Caution	Caution	
Flammable	SAFE		Caution	Caution
Oxidizing	SAFE	Caution		
Toxic	SAFE	Caution	Caution	
Environmental hazard	SAFE	Caution	Caution	
Explosive	SAFE			Caution
Harmful/ irritant	SAFE	Caution	Caution	
Carcinogen	SAFE	Caution	Caution	

# Success in the Field

## PARALAX® Improves BOPH in Subsea Pipeline

PARALAX® cleared a subsea oil pipeline in the Gulf of Mexico, where past treatments had been ineffective, pipeline throughput declined and some wells had to be taken off-line. Once PARALAX® treated the pipeline, the operator was able to discontinue the use of other chemicals and saw an increase from 80 barrels of oil per hour (BOPH) to 140 in just two weeks.

## Gas Lift Well Benefits from 13 Weeks of Wax-Free Production

Common practice for flowing and gas lift wells is to use slickline units with gauge cutters to cut the wax from tubing wells. This practice was repeated every four to seven days. PARALAX® supplemented the treatment and was injected into the formation to support the creation of a wax-repelling environment. This 12,250 foot well in Turkmenistan saw 13 weeks of wax-free production and recovered the costs of the PARALAX® treatment within 11 days.

## Central Asia Well Sees Payback in Two Days

The progressive cavity pump in a 2,850 foot well in Kazakhstan was underperforming because of solidified wax and the operator was scheduling hot oil treatment of the wax every 7 to 10 days. PARALAX® was applied using a standardized process of pumped well circulation. The system efficiency improved from 170 BOPD prior to the treatment to 265 BOPD. Twelve weeks after the PARALAX® treatment, the operator was maintaining production levels and saw no signs of recurring wax.

*"When you take into consideration that this pipeline has not been pigged in 7 years, you have to ask yourself how long will it take to free it up .... PARALAX® was a miracle chemical for us, and we all said there was no way possible it would work. But we were all very pleased to be proven wrong."*

*"In our eyes, such a significant improvement in production figures has elevated PARALAX® from ... a wax remediation product to being an exceptional improved oil recovery product."*



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