

Pipe line Cleaners

for

Oil Pipe Lines

Wet Gas Pipe Lines

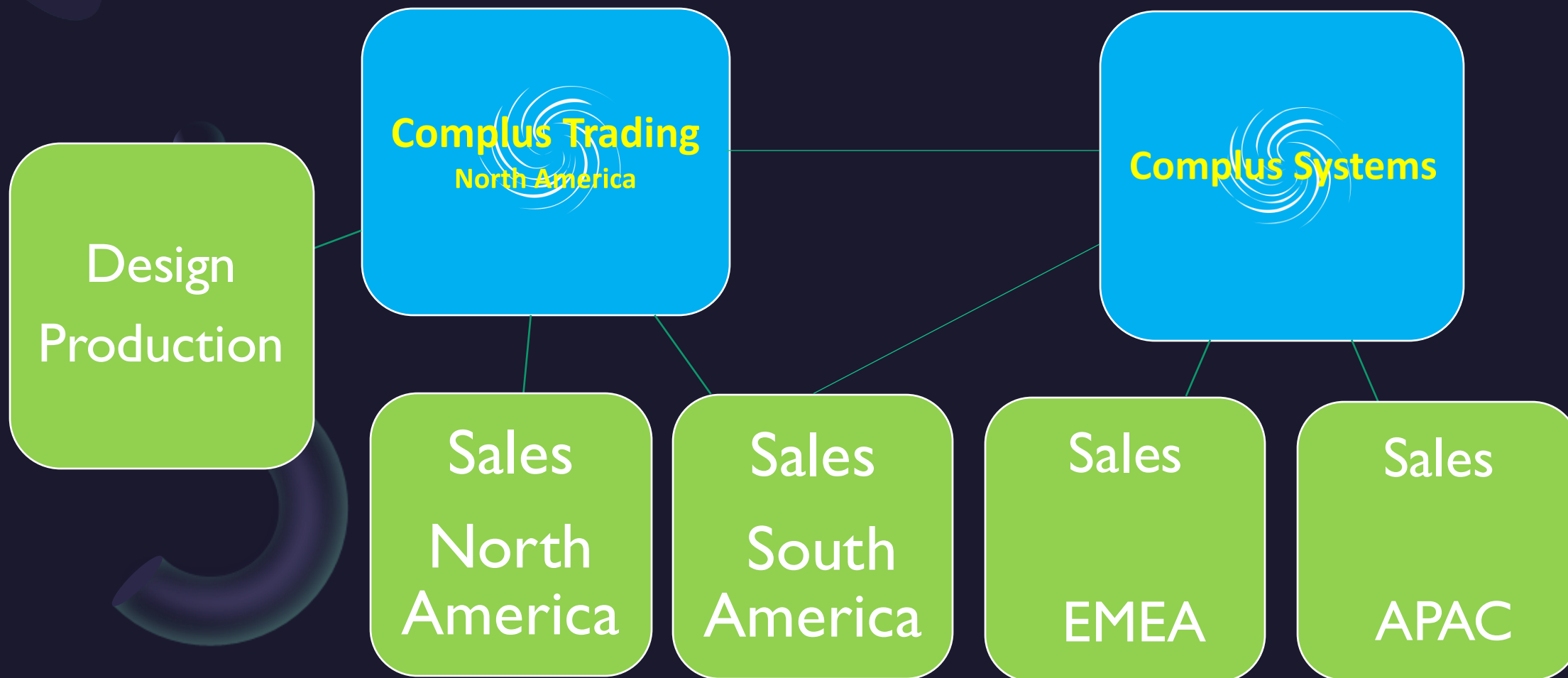
Dry Gas Pipe Lines

Alpha Products

February 2026



COMPLUS GROUP ORGANIZATION



What we do:

- **COMPLUS GROUP produces green EOR Products**
- **Enhanced oil recovery** products for oil well production increase and optimization
- **Foaming products**, soap sticks and liquid foamer for gas wells production increase and optimization
- **Pipeline cleaning products**, using enzymes and advanced active nanotechnology
- **Bioremediation solution** of soil and water contaminated with hydrocarbons
- **Water treatment** through industrial equipment that leverages **cavitation technology**



Eliminating Black powder

Stop Bacteria Damage

Remove Paraffin blockage

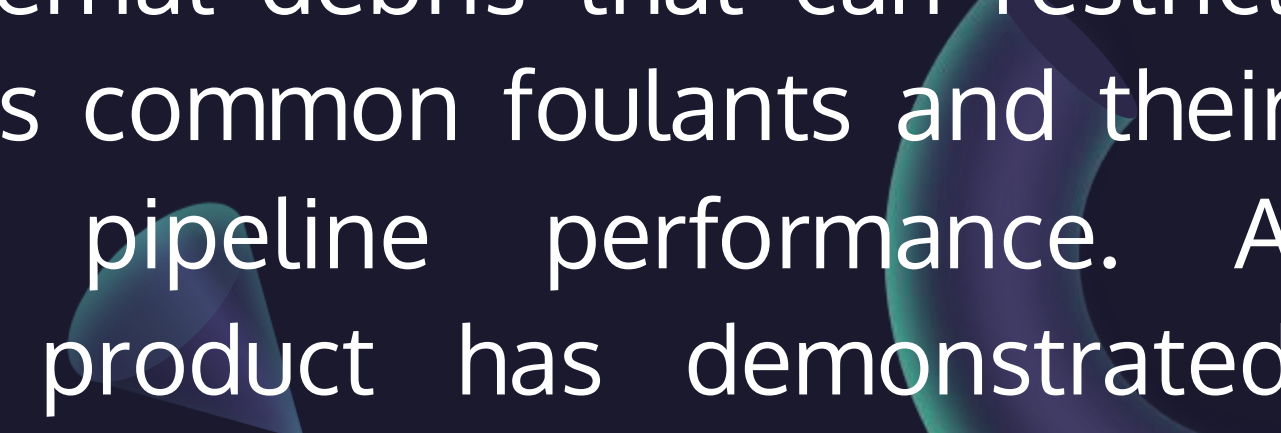
Improve flow

AlphaSweep
Nano Particle
Enhanced
Pipeline
Cleaners

Nano Particle Solutions

A collection of semi-transparent, glowing geometric shapes in shades of teal and blue, including a sphere, a cube, and a cylinder, arranged in the upper right corner of the slide.

Oil, gas, and multi-phase pipelines often accumulate various deposits or internal debris that can restrict flow. This review covers common foulants and their negative impact on pipeline performance. A nanotechnology-based product has demonstrated strong effectiveness in eliminating a broad range of these contaminants...

A collection of semi-transparent, glowing geometric shapes in shades of teal and blue, including a sphere, a cube, and a cylinder, arranged in the lower right corner of the slide.

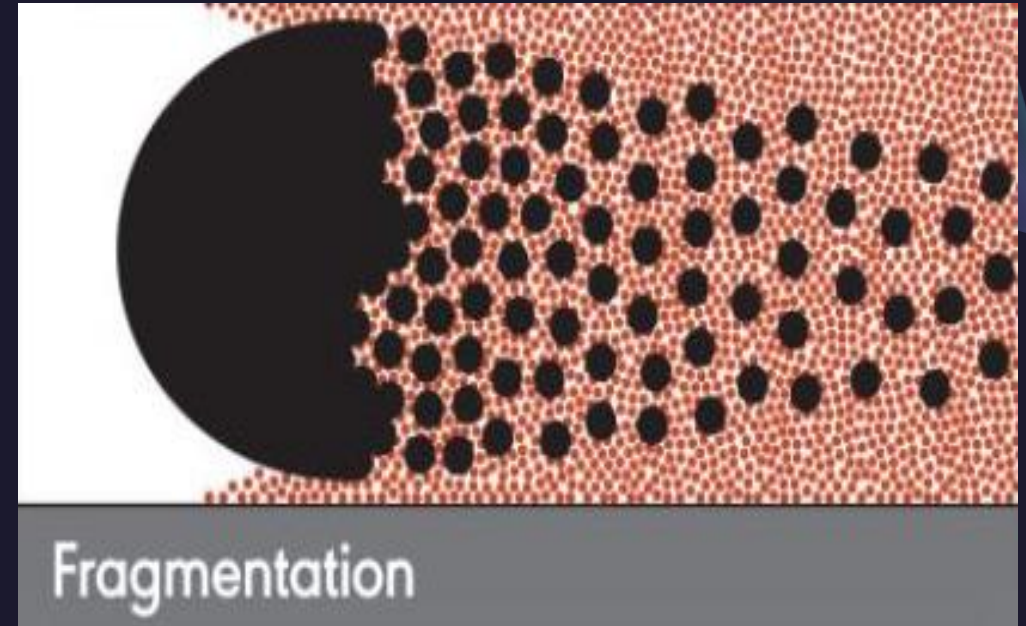
Nano Particle Solutions

Pipe Sweep provides a nanotechnology-based mechanical cleaning mechanism as opposed to a chemical reaction. The cleaning mechanism has the potential to protect the pipe wall surface from further deposition of debris and moisture build up, if set up on a continuous injection.

Nano Particle Solutions

Complus Trading North America, LLC offers many different Nano particle powered products to address different problems in pipe from down hole, flowlines and major pipeline cleaning projects. Our nano particles are powered by Brownian motion that enables our products to penetrate & lift to help remove debris by attaching to the surface of the Pipe Line and repelling unwanted debris. Once attached it repels anything from attaching to the Pipe Line for a limited time thereby enabling efficient cleaning and decreasing the drag of the flow in the Pipe Line.

Nano Particles are a mechanical device carried in a critical solution that will lift the solids in the pipe and break them into smaller particles for removal. The solution help penetration and dissolution.

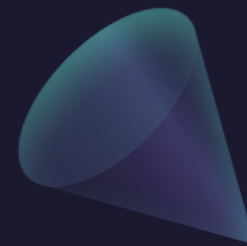
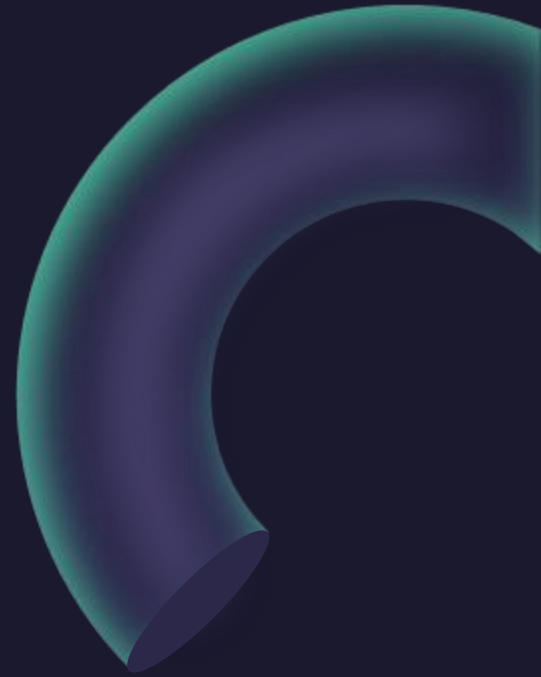




Understanding the dangers of SRB (Sulfate Reducing Bacteria)

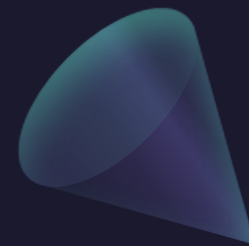
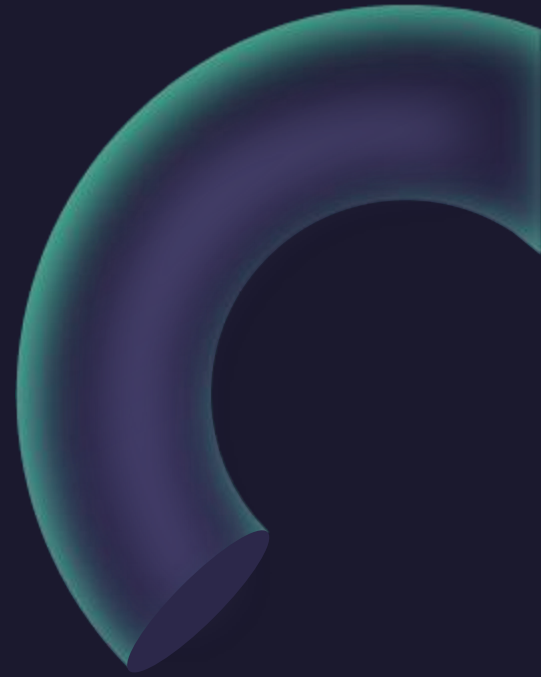
Destructive Damage of SRB's

- SRB's migrate into the pores of the metal at low points in the pipe or anywhere moisture does build. SRB's begin digesting the sulfates in the gas and fluids in the pipe. Their waste product is SO_4 which is acidic and begins to dissolve the iron of the pipe and build a bubble of crusted damaged pipe over their colonies of bacteria. This gives a protected barrier enabling the growth of millions of colonies. Black Powder develops as the iron sulfide moves out of the colony home and the gas dries iron sulfide to form what we see as black powder.



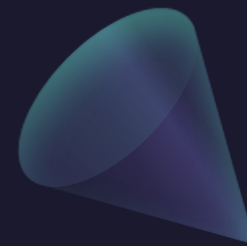
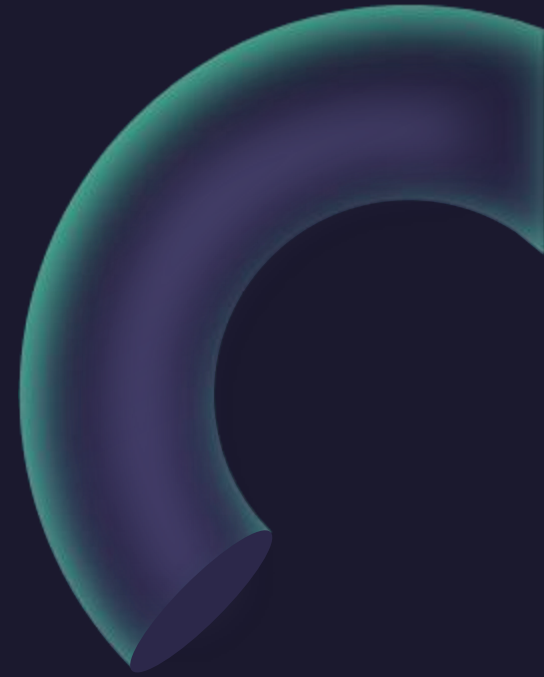
Destructive Damage of SRB's

- As the black powder develops it can accumulate in the pipe as much 18" in height. This causes flow resistance of gas in gas lines and solid build up in liquid lines. Our Ultra Pipe Sweep products will assist in removal of the black powder and the nano particles will penetrate the nests in the pipe carrying a poison that will kill the bacteria. This will effectively help keep the pipe clean much longer.



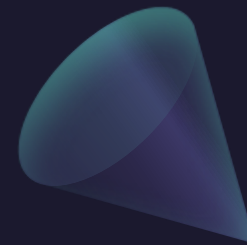
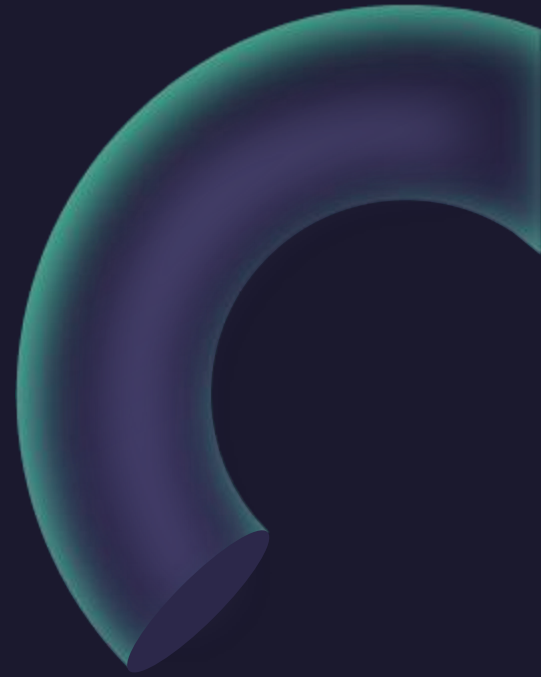
Destructive Damage of SRB's

- SRB's once introduced to an environment will grow in numbers anywhere there is a sulfate food source. Major damage can be found in water tanks causing tanks to leak, due to the same type of corrosion damage caused by SRB's. They will also form a wet solid in the water tanks that can lead to formation damage in disposal systems.



Destructive Damage of SRB's

- SRB's, if left unchecked, will continue to thin the walls of pipe until a hole is created there by causing pipeline eruptions.
- Using Complus Pipe sweep products will help penetrate the nests and kill the bacteria as well as sweep the iron sulfide deposits away from the metal. This assures a good sweep of the pipe as well as penetration into the source of the SRB's.



Pipeline eruption
can cause
tremendous
damage

And also lose of
life in the
explosion as well
as in fire control
efforts



Annual cleaning of pipelines will save expensive repairs.

- Regular annual cleaning results in lower costs due to starting with a cleaner pipe.
- Annual cleaning and inspections are recommended.



Choosing Pipeline cleaning pigs is essential

The 2 primary pigs for cleaning with nano pipe sweep are a good spreader pig and a good bull-brush pig

A spreader pig is needed for the initial application of the Pipe Sweep

A calculation is done to apply a 4 milliliters treatment initially with a spreader pig to begin The application of Pipe Sweep.



A Bull Brush pig
is used in the
second
application

24 hours later we pump a
2 milliliters pill and then
push it through the pipe
with a bull brush pig and
set up a collection point
for the liquid clean up.



Debris volumes collected will fluxuate based on the volume of chemical pumped and Black Powder in the pipe.

Several products are available for specific needs.

AlphaSweep SP-1976 Max

AlphaSweep SP-1976 Reserve

AlphaSweep SP-1976 Maintenance



Separation systems need to be able to move all liquid and solids from the pipe and allow the gas to feed back into the line

Frac tanks can be set up to collect the solids and liquids for disposal.

The solids will have a high level of mercaptan vapor in them as it is a treated gas.





Realized ROI

Normal ROI is
realized in less than 30
Days and savings
continues grows.



Nano products offer highly effective solutions tailored to specific cleaning requirements.

Dehi systems can be cleaned up in one application and change of filters with easy maintenance options for running a clean dehydration system. **Amine units are** easily cleaned when used for for CO₂ and H₂S control. One time cleaning and maintenance cleaning stops down time. Product name Alpha lift-DH

Witch's Hats foul many times due to solids build up and we have a nano particle that keeps these clean with 1 to .1.5 gallons per day injection.

The product name is Alpha lift-WH. Please contact us for more details.

Available products

Dry & Wet	Dry & Wet Gas Lines
Dry Pipe	AlphaSweep SP-1976 (water base)
Wet Pipe	AlphaSweep SP-1974 (Oil Base)

Available products

Oil Pipe	Oil Pipelines
Oil Pipe	AlphaSweep SP-1957

Thank you



Download this presentation

AMERICA

Complus Trading North
America LLC
5151 Katy Freeway, Suite 140,
Houston, TX 77007, USA
info@complustrading.com
Office: +1 830.200.5119
www.complustrading.com

WEST EUROPE

Complus Systems
Via Laboratori Autobianchi 1,
Building 9,
20832 Desio (MB), Italy
info@complusystems.com
Office: +39 02 8719 9397
www.complusystems.com

EAST EUROPE

Complus Systems
Vabaõhumuuseumi tee 5/2-15,
13522 Tallinn,
Estonia
info@complusystems.com
Office: +372 5010996
www.complusystems.ee