

# Remove polymer buildup with ALPHAZYME D-400PB Polymer Buster

June 2025

**Complus Trading**  
North America



# Agenda

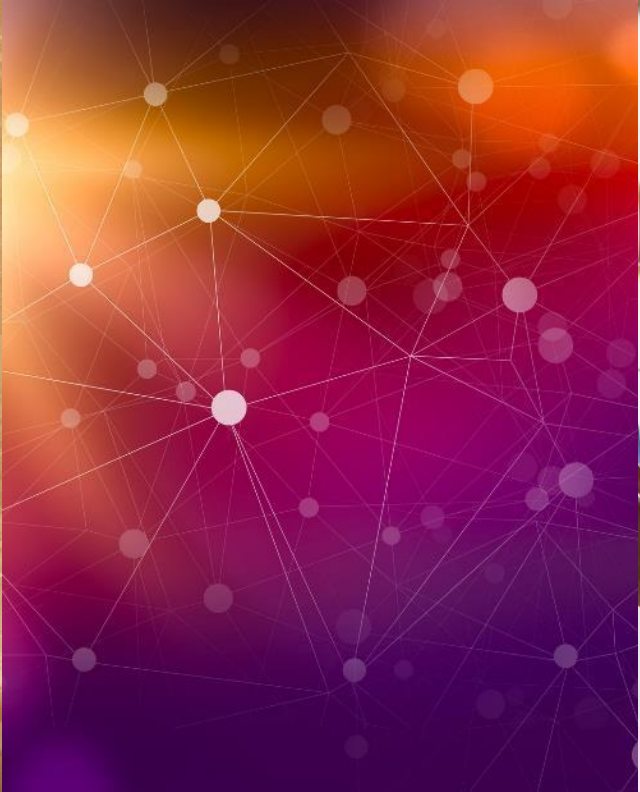
Introduction & discovery

Evaluation of wells

Fracture Restimulation

Water floods





# The problem of removing polymer buildup

- We have been making a PHPA stick for drilling and had problems cleaning tanks to remove the polymer, so we developed a surfactant that helped penetrate the polymer and a nanoparticle additive that broke the polymer chain. This was visible under a microscope, so we took this product to the field and began working to improve it for down hole and in surface equipment that has skin damage and gummy bears from polymer.

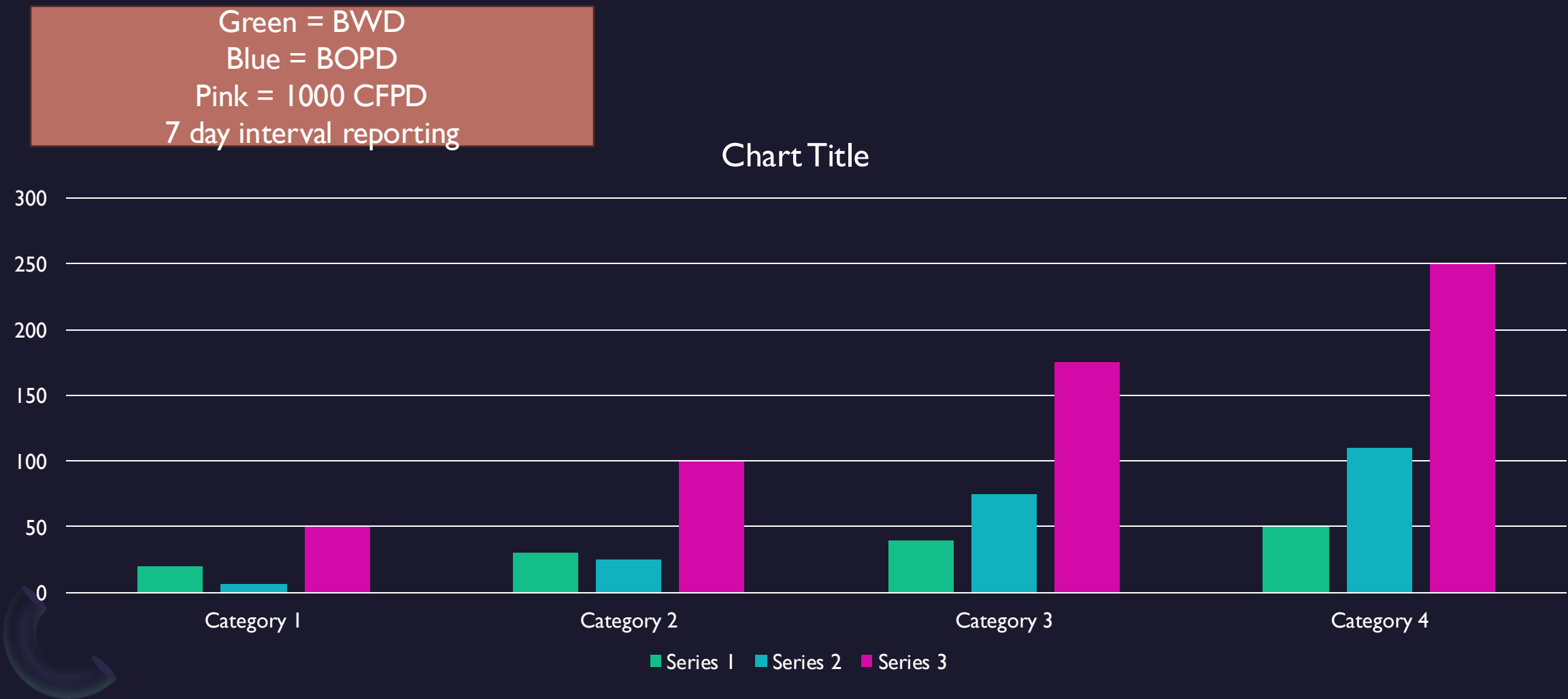


# Skin damage of well formation

Many times, we have been asked to evaluate different systems damaged by polymers. From wells that were damaged during fracking, RE-stimulation, and improper polymer injections on water floods.. Often the cause is, using incompatible chemistry that causes gummy bear-solids to build up down hole or over treatment in general. We have applied our AlphaZyme D-400 PB at 1 and 2 GPT in restimulations to clean up entire systems.

Our AlphaZyme D-400 series comes in product lines that target specific API gravity oil.

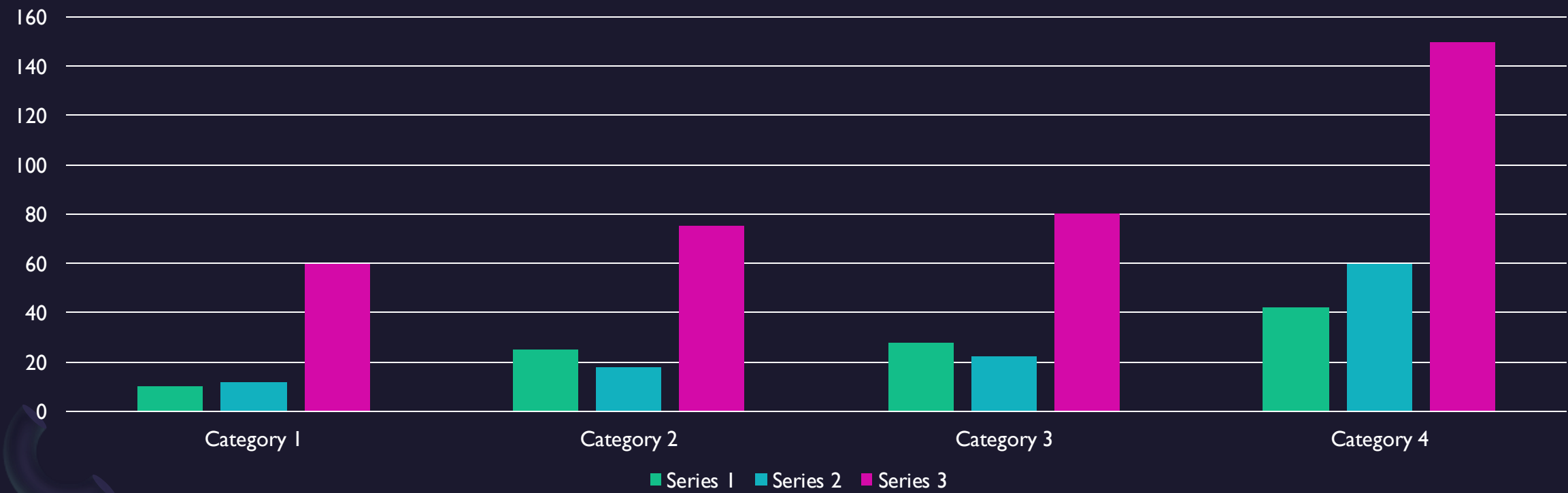
# South Texas Chalk Gas Well 2020



# South Texas Chalk Gas Well 2020

Green = BVD  
Blue = BOPD  
Pink = 1000 CFPD  
7 day interval reporting

Chart Title



# Water Flood system Clean up

- In several cases Companies have been using a polymer water flood to help increase oil production. In some cases, the overuse of the polymer has caused well blockage and formation damage.
- In extreme cases some wells have been completely plugged off and need to be stimulate and cleaned. **Complus Trading North America, LLC** has developed a product line that can be used to bullhead directly into the well and soak for 10 to 14 days.
- In water flood injections our products can be added into the water injection system directly to remove polymer damage throughout the water flood. This process can take some time and is done in a 3 stage process.
- 1. Evaluate each production well, independently for possible stimulation and after wells are stimulated go to step Two.
- 2. Begin a 1 week injection of 4 GPT into the flood injection well
- 3. After 1 week reduce injection rate of chemical to 3 GPT for 1 week.
- 4. After 2 weeks drop to 2 GPT for 3 weeks.
- 5. After 5 weeks the rate can be dropped 1 to .5 GPT depending on the wellhead pressure targets.

# Central Texas Sandstone water flood Well 2020

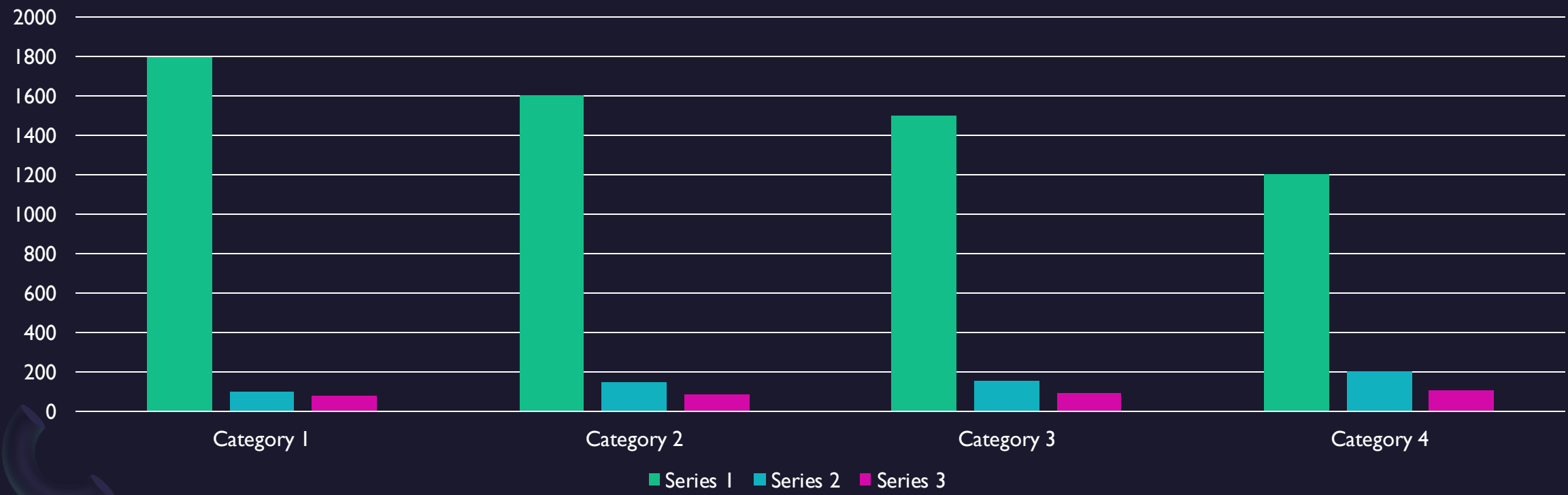
Total production on a field of 25 wells with 8 injector wells.

Data entry every 30 days

Green injector = injection pump pressure

Blue- BWPD

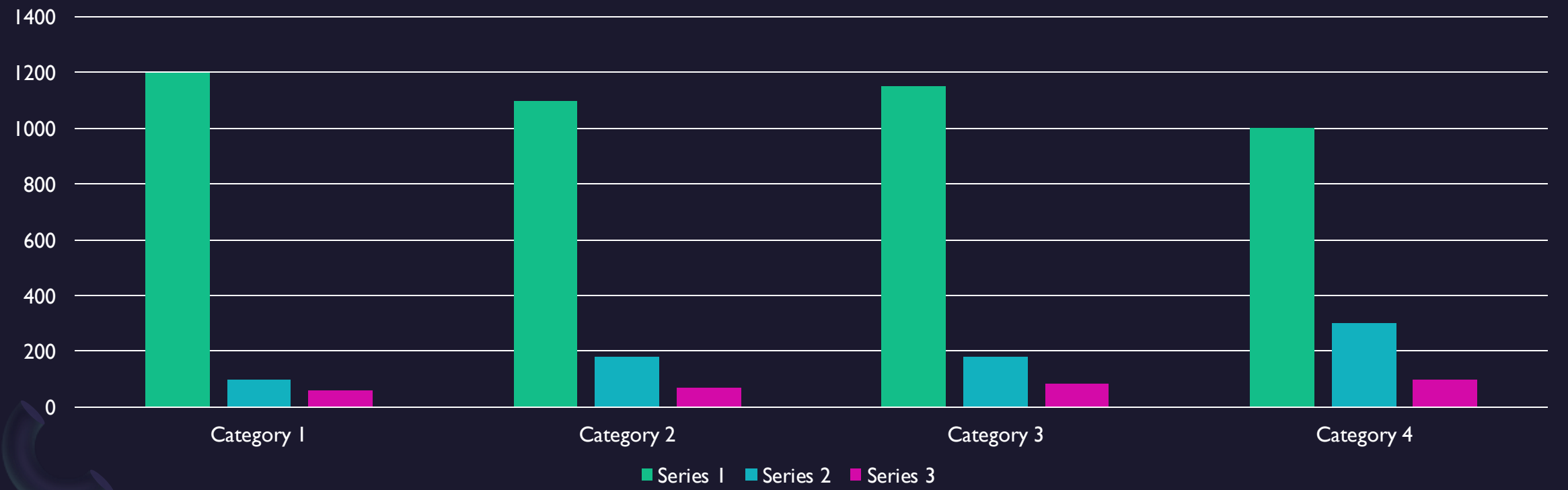
Pink = BOPD





# Central New Mexico Sandstone water flood Well 2020

Total production on a field of 20 wells with 7 injector wells.  
Data entry every 30 days  
Green injector = injection pump pressure  
Blue- BWPD  
Pink = BOPD



The way to get  
started is to quit  
talking and  
begin doing.

Walt Disney



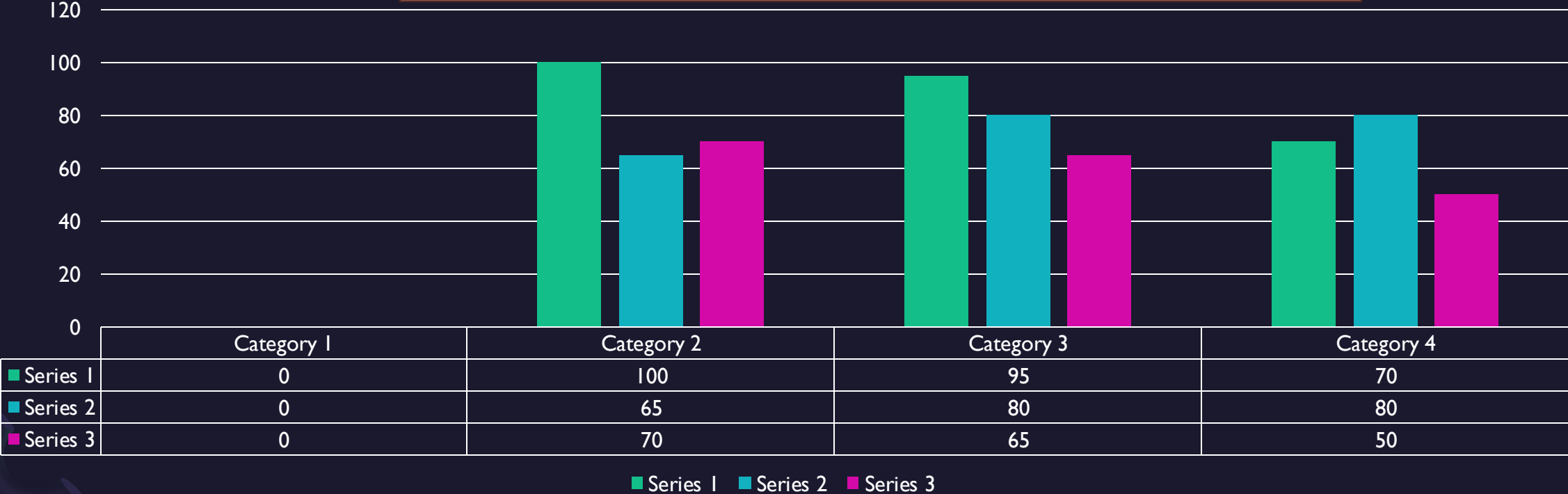
The next 2 slides are from 2 wells that were completely plugged off due to polymer waterflood systems for 2 years. After a bull head treatment, they were shut in and forgotten during covid for 2 months, then turned on.



AlphaZyme-D-400PB

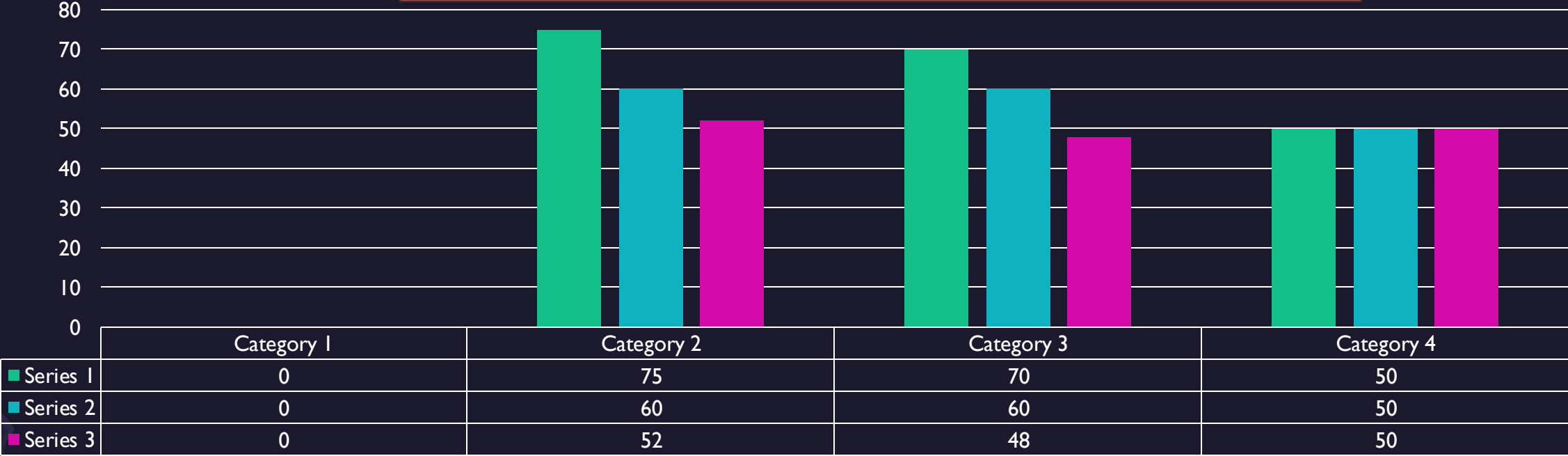
# China Sandstone water flood Well 2020 Well #3

Producing well in a polymer water flood field of 20 wells.  
Well had been dead for 2 years  
Green injector = well head pressure  
Blue- BWPD  
Pink = BOPD  
Production was free flowing & Information gathered every 4 weeks.



# China Sandstone water flood Well 2020 Well #7

Producing well in a polymer water flood field of 20 wells.  
Well had been dead for 2 years  
Green injector = well head pressure  
Blue- BWPD  
Pink = BOPD  
Production was free flowing & Information gathered every 4 weeks.



Series 1 Series 2 Series 3



# Water Flood Injection

After producing wells have been cleaned up with bull head applications, we suggest starting injection of the AlphaZyme D-400PB into the injection well at 4GPT for 1 week, and 3 GPT for 1 week, then 2 GPT for 3 weeks. After the 5 weeks drop to 1 GPT continuously. This will help clean up the formation and improve the over all production.





# Summary

Complus Trading North America, LLC can offer a variety of products for well stimulation and well clean up, specifically for polymer damage. In Fracturing new wells, stimulating older damaged wells, and for water flood damage by polymer. The nano particle will also help change wettability of the rock to water wet and help increase oil production. Our particle also cut the polymer chain down to help remove all skin damage.

**Complus Trading**  
North America

Thank you  
For your time.

Please contact us for more  
information and learn if our EOR  
Alpha products are the right choice  
for your oil wells.



**AMERICA**

Complus Trading North  
America LLC  
5151 Katy Freeway, Suite 140,  
Houston, TX 77007, USA  
[info@complustrading.com](mailto:info@complustrading.com)  
Office: +1 830.200.5119  
[www.complustrading.com](http://www.complustrading.com)

**WEST EUROPE**

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

**EAST EUROPE**

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