

# Nanotech Oil Solutions Corporate Profile

**NANOTECH**  **IL SOLUTIONS** LLC.

**NANOTECH**

Dr. Roberto Riva Gondolo PhD

Green biodegradable environmental solutions for unprecedented oil well production increases & remediation

**Nanotech Oil Solutions LLC “Nanotech” is a US oil remediation company, which provides products, technology and services to stimulate oil & gas wells and increase their production to unprecedented levels.**

Nanotech uses state-of-the-art, nanotechnology, biodegradable StimMax products to stimulate mature, marginal or neglected wells and bring them back to (or close to) their original peak production while regenerating their oil reservoirs. StimMax line of products, manufactured & formulated by Well Tech Fluids US.

Nanotech operates in **Joint Venture or Service Agreements with oil companies** whereby it performs **“turnkey” oil well stimulations, at its own cost**, and shares additional oil production. Alternatively **provides “Stimulation Packages”** consisting of Pre-Stimulation Well Analysis, Delivered Products, Field Training and Stimulation Assistance.

- See Website: [www.nanotechoil.com](http://www.nanotechoil.com)
- Technical step-by-step procedure; [www.nanotechoildata.com](http://www.nanotechoildata.com), (password required)

# Technical Advantages of Stimulations

## CHARACTERISTICS

- Stimulations performed with the only biodegradable, eco-friendly line of solvent/surfactant, nanoparticle products in the market: “**StimMax**” and “**BioMaxx**”, formulated with nanotechnology by the manufacturer Well Tech Fluids from a multitude of bio-derived products: [www.weltechfluids.com](http://www.weltechfluids.com)

### **StimMax:**

- Maximizes flow rates
- Prevents paraffin wax deposition
- Prevents formation of asphaltenes
- Eliminates sludge
- Breaks emulsions
- Repairs formation damage
- Reduces viscosity, Prevents corrosion
- Restores permeability and wettability alteration
- Cleans and disposes of toxic waste

# Ecological Advantages of Stimulations

- It is made from 20 plant-based biodegradable products.
- It is biodegradable “Green” non-toxic and non-corrosive, with neutral pH of 6.5.
- It is not labeled; “Hazardous Material”, therefore no equipment or transportation is needed or special containers and does not send workers to the hospital when in contact.
- It does not contaminate underground aquifers.
- It dissolves in contact with water.

.....Current stimulations with toxic acids are exactly the opposite; pollute & corrode.

# Economic Advantages of Stimulations

**UNPRECEDENTED OIL PRODUCTION INCREASE** – All StimMax stimulations increase oil well production very close to 100% of peak production, regardless of what the wells are currently producing. In some wells, production increases 25 times more.

**HUGE SAVINGS VS OTHER ACID STIMULATIONS:** In a 10-well comparative study by two major oil companies, they concluded that in wells averaging 500 BPD, the annual savings versus conventional acid stimulations was \$3,300,000/year/well at \$40/bbl.

**SUBSTANTIALLY REDUCED DOWNTIME:** StimMax stimulations are performed between 1 and 4 times/year instead of 12 times/year with acid chemicals. This equates to 25 days less downtime/year. Additionally: The product volume is 10 times less than that of toxic acids. Cheaper to transport and less (man hours)

**POTENTIAL DRILLING REPLACEMENT:** Since StimMax stimulations generate so much additional oil production from existing under-producing wells, in most cases, it replaces drilling by producing the same amount but at a fraction of the cost and without the uncertainty of a dry well.

**SUBSTANTIAL INCREASE IN PROVEN RESERVES:** Because StimMax stimulations extract an additional 50% or more crude oil from existing reservoirs, proven reserves increase proportionately, thus substantially increasing the asset column in the balance sheet.

**OIL RESERVOIR REPAIRS:** StimMax repairs formations damaged by previous remediation work and toxic acid stimulation, therefore extending the life of reservoirs for additional production.

# Stimulation Performance

## NANOTECHNOLOGY

In mature, under producing oil & gas wells (neglected, abandoned or closed) is where **StimMax** stimulations are most effective: After WTF stimulated 82 wells in Venezuela, **StimMax** increased their production to their original peaks: 3X to 22X their current production levels.

Some Examples:

*Well JM11-186: From 10 BPD to 220 BPD ( 22X)*  
*Well 220-33-60: From 250 BPD to 750 BPD ( 3X)*  
*Well RN22-66; From 2 BPD to 340 BPD (170X)*  
*Well R644-84; From 0 BPD to 110 BPD (110X)*



**Video Link. Separation of Oil, Water and Solids (Home Test Video):**

<https://youtu.be/g19kdXEzZfs>



# Nanotech Current Performance

Tested



**Current Performance.** Currently Nanotech, has secured numerous oil & gas wells in the Western Hemisphere and Southeast Asia and is in the last stages of negotiations to stimulate wells in the United States.

**Video link: Biomaxx Lab & Field Slump Cleaning Test:**  
[https://youtu.be/QfEJl\\_mBF3k](https://youtu.be/QfEJl_mBF3k)

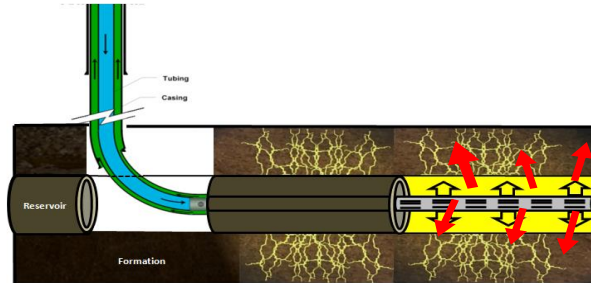


# How it Works

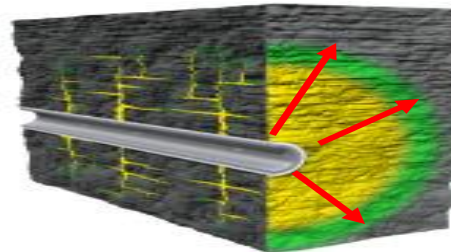
**StimMax** is injected into the oil well with brine (or purified) water and its nanoparticles penetrate into the oil wells operating pipes and deep into oil reservoirs, dissolving obstructions caused by organic material such as paraffins (wax), asphaltenes, and carbonates (salts) reducing them to a liquid form which are pumped out and eliminated. Illustrations below.



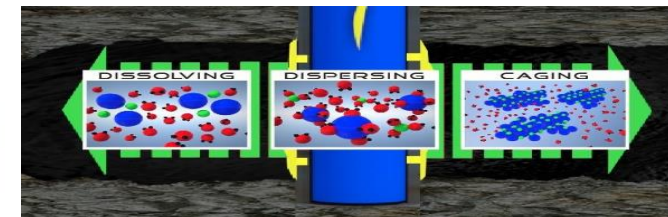
Types of oil pipe obstructions.



StimMax penetrates deep in reservoirs



Eliminates obstructions  
Coats pores. Increases Mobility



Dissolves, disperses, cages  
obstructions and eliminates them  
as flowing liquid

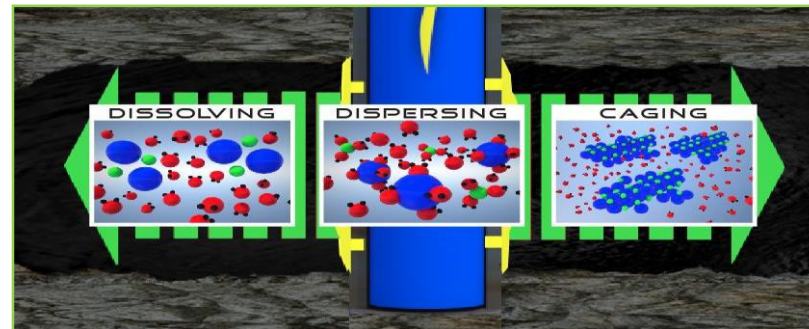
# Application of StimMax Nanoparticles

## APPLICATION

- **REPLACES:** Nano-scale complex mixtures are formulated to **replace traditional** acidic and solvent chemical stimulation methods.
- **DISSOLVES:** Breaks and dissolves any high weight molecular organic matter **into a solution**, like paraffin, asphaltene, scales, mud cake, emulsion and retrograde condensation from open-hole perforations and formation of sandstone and/or carbonate reservoirs.
- **PENETRATES:** Its high thermal, long lasting, nano-particulate formula, allows the product to **penetrate deep into the formation to repair formation damage**, restore permeability, reduce viscosity, deconstruct the asphaltenes and enhance flow for improved production over longer periods of time.

Three distinctive reactions:

dissolution,  
encapsulation and  
emulsification.



# Available Videos

1- Video Link. Separation of Oil, Water and Solids (In-house Test):

<https://youtu.be/g19kdXEzZfs>

2- Video Link: StimMax Lab Test #1 and Test #2:

<https://youtu.be/OtKwqfiDZ0I>

3- Video link: Biomaxx Lab & Field Slump Cleaning Test:

[https://youtu.be/QfEJl\\_mBF3k](https://youtu.be/QfEJl_mBF3k)

4- Video Link: Manufacturing Plants in Detroit and Cleveland:

[https://youtu.be/Etf1x5\\_OjWs](https://youtu.be/Etf1x5_OjWs)



# Onshore Wells. Stimulation Trucks



Pumpjack well for Stimulation in Peru



Wire Line Truck



Hot Oil Truck



Baker truck (Cistern)

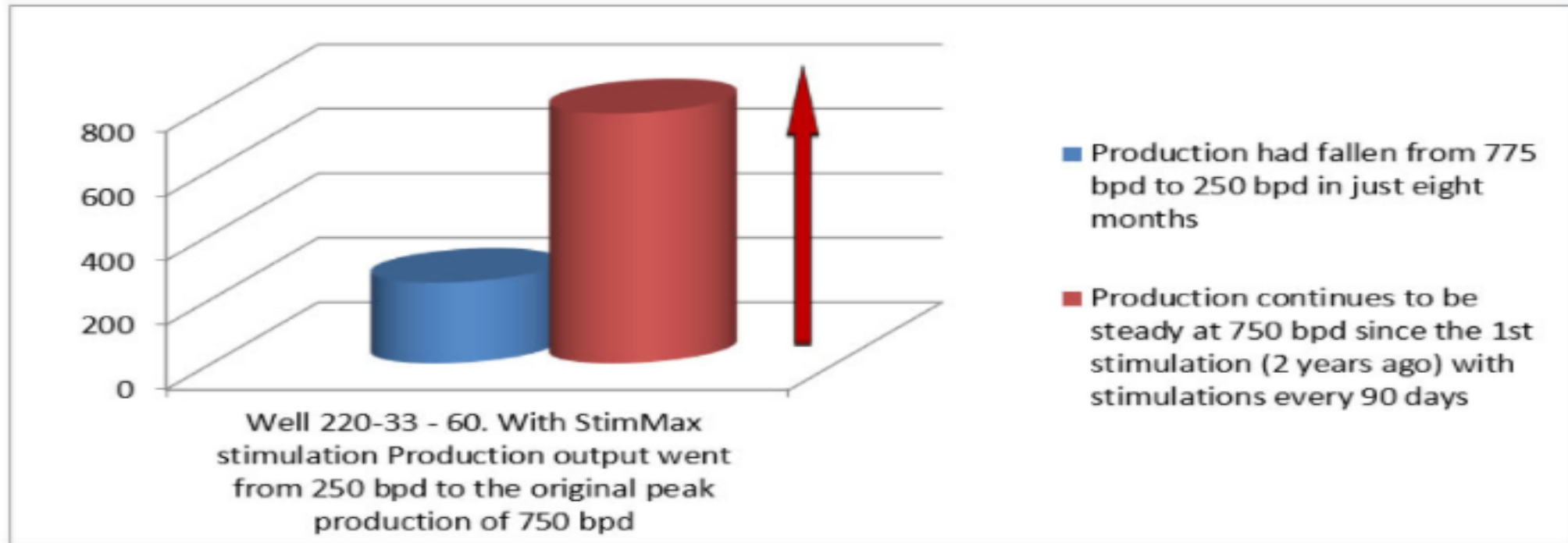


Workover Rig Truck

# Field Applications Results

## Actual Onshore Oil Well Stimulation

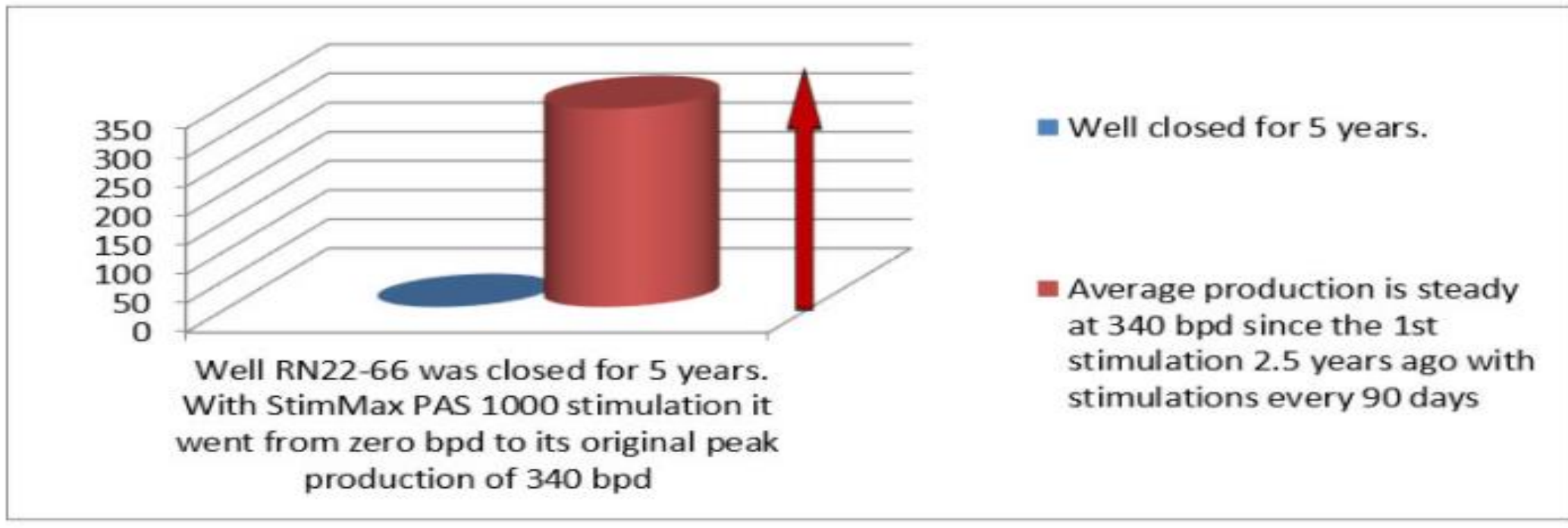
- Well 220-33. In 2018, production had fallen from 775 bpd (100% capacity) to 250 bpd (33% capacity) in just eight months.
- With StimMax PAS-1000, stimulation, production returned to its original peak capacity of 775 bpd (100% capacity or peak production). 3X Increase and remains steady with stimulations every 90 days.



# Field Applications Results

## Actual Onshore Oil Well Stimulation

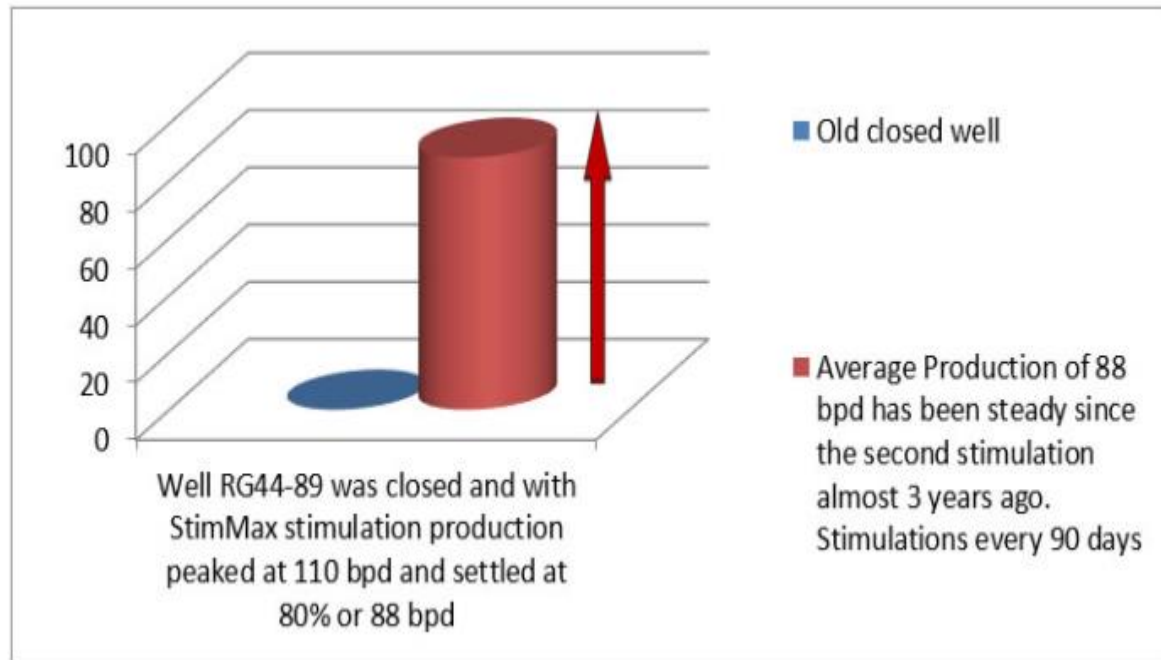
- Well RN22-66. This well had been closed for five years and when stimulated with StimMax PAS 1000 it went from zero bpd (0% Capacity) to 340 bpd. (100% capacity).  
With stimulations every 90 days, production continues to average 340 bpd since the first stimulation 2 and a half years ago



# Field Applications Results

## Actual Onshore Oil Well Stimulation

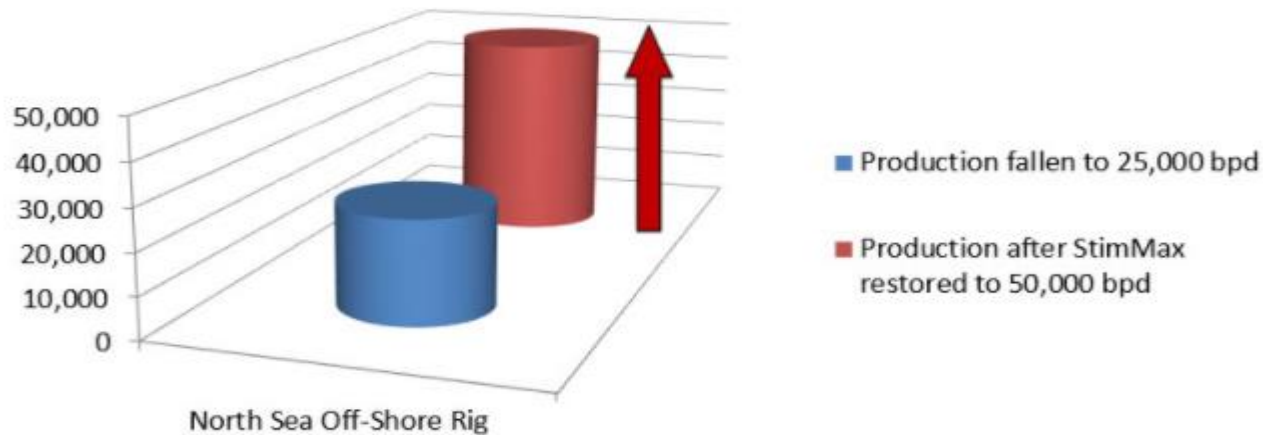
- Well RG44-89. Well production went from zero bpd to 110 bpd.
- Utilizing StimMax PAS-1000 stimulation treatment, production rate settled at an average of 88 bpd.



# Field Applications Results

## Actual Offshore Oil Well Stimulation

- North Sea Off-Shore Well: This off-shore platform from a major Norwegian Oil Company produces close to 50,000 barrels per day (bpd).
- Production had been reduced to 50% (25,000 bpd).
- Two **StimMax** stimulation generated amazing results.
- Production increased from 25,000 bpd to its maximum; 47,650bpd.



## **MANAGEMENT: Combined Nanotech – WTF Management & Tech Teams:**

### **Executive & Technical Team Leaders:**

Roberto Riva Gondolo

*President Nanotech. PhD*

Jeffrey Loch

*President WTF B.E.S.*

Richard Stother

*JD Yale Law, Chief Legal Counsel,*

Alfredo Lovera, B.S.E.

*Partner WTF, Chief Technical Operator*

Habib Shaheed

*Financial Director UK*

Carlos Monjes

*Geological Engineer--*

German Kasay

*Petroleum Engineer—Operations Coordinator*

# Management Executive Team

## **Roberto Riva Gondolo –**

*President. PhD*

*Nanotech Oil Solutions LLC*

Riva has over 30 years of experience in oil and gas business. Received his engineering PhD degree at the Polytechnic University of Milan, Italy.

Founded Latina Oil Co. in Houston and for many years traded crude oil in 6 South American countries outbidding and then working with; Texaco, Exxon and Shell.

Lifted the first cargoes ever from two Government Owned Oil Co's in South America (Ecuador, Bolivia). Negotiated oil concessions in Colombia and contracted multimillion pre-export facilities with PDVSA (Venezuela). Currently servicing biodegradable nano-particle oil well stimulations in the Western Hemisphere.

## **Jeffrey Loch –**

*President B.S.E,*

*Well Tech Fluids LLC*

Jeffrey Loch is an accomplished Senior Executive: creator of the bio-derived, environmentally friendly solvent: StimMax. Mr. Loch currently has a very large environmental and production presence in Venezuela fed by his factory in Cleveland and Detroit. Mr. Loch created the world's first and only certified commercially available motor oil successfully proven in NASCAR. Jeff earned his Bachelor of Arts in Management and Economics from Albion College.

# Management Executive Team...cont...

## **Richard P. Strother –**

*Chief Legal Counsel*

Mr. Strother holds a BA/BS UNH, Yale Law School J.D. '78, Oxford University Said Business School – Financial Technology, Founder of CTC Moscow, Anchor station to CTC Media Russia, 3rd largest in Russia and first publicly traded Russian Media Company on the NASDAQ (“CTCM”). He was also admitted to the United States Tax Court.

## **Alfredo Lovera**

*Partner WTF, Chief Technical Operator*

With over 15 years of “on-site/in-lab – hands-on” experience within the Oil & Gas industry, Mr. Alfredo Lovera, President of Green Hook Supplies (GHS), is an industry leader in the field of “non-conventional” oil & gas well maintenance, well integrity and well stimulation remedies. As GHS’s president, Mr. Lovera provides both technical assistance and managerial support for oil & gas aperture to multi-national O&G operators throughout the world. Mr. Lovera, a Venezuelan citizen is well connected at the highest Oil and Political levels in Venezuela.

## **Habib Shaheed**

*Financial Director*

*Nanotech Joint Venture*

CEO of EPPI LLC. CEO of EPPI UK. CEO of SOS UK

# Management Technical Team...cont....

## ➤ **Carlos Monges Reyes**

*Operations. Nanotech Rep.in Peru. Chief Technical Officer*

Senior geologist with over 35 year experience in the oil & gas industry. Former Chairman of the Board of the Peruvian Hydrocarbon Society since its foundation in 2012 to 2015 and former Chairman of the Board of the Peruvian Geological Society for the period 2016-17.

He was E&P Director with Upland Oil & Gas LLC, related to two onshore blocks at Talara and Tumbes basins, in Peru, 2016-18. Operations Manager of various oil & gas North American companies, for different offshore and onshore blocks in Peru.

## ➤ **German Kasay Ahumada**

*Chief Operating Officer. Field Team*

Petroleum Engineer with 33 years of work experience in the hydrocarbon industry:  
drilling, completion, workover, other.

Former General Manager of Petrolera Monterrico, now working with Nanotech Oil Solutions Peru SAC. Environmental, oil production and consulting for Schlumberger Brazil, Savia Peru (offshore) Repsol, Maple Gas in Peru, and Pluspetrol.

# StimMax Oil & Gas Well Enhanced Productions

The Entire Power Point can be Viewed and Copied in the Company Website: [www.Nanotechoil.Com](http://www.Nanotechoil.Com)



# BioMaxx Oil Sludge & Slump Removal & Recovery

**THE ENTIRE PDF FILE CAN BE VIEWED and COPIED IN THE  
COMPANY WEBSITE: [WWW.NANOTECHOIL.COM](http://WWW.NANOTECHOIL.COM)**



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**Nanotech website: [www.nanotechoil.com](http://www.nanotechoil.com)**

- Nanotech Oil Solutions Headquarters is in West Palm Beach, Florida with Representative Agents in London and Lima.

# conclusion

## CONCLUSION

The NANO – PARTICULATE “non-conventional” Stimulation System not only removes inorganic obstructions within the perforations and near well bore, but its high thermal long lasting nano particulate formula allows the product to penetrate deep into the formation to repair formation damage, restore permeability, reduce viscosity, deconstruct the asphaltenes and enhance flow for improved production over longer periods of time. It is of symbiotic chemical design, not only penetrating deep into the formation, but attacking the well in three distinctive reactions; dissolution, encapsulation and emulsification.