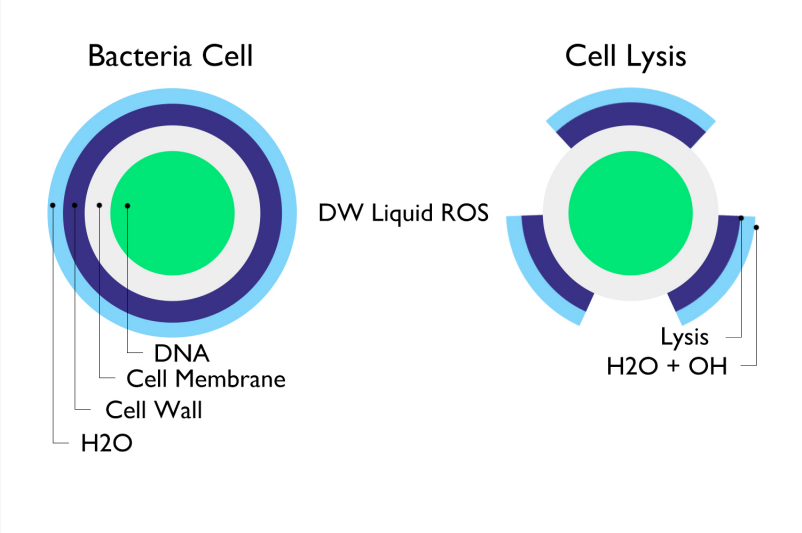
INCREASING OIL WELL PRODUCTION FROM 1 BBL TO 15 BBL PER DAY

Injecting DW Liquid ROS into the well increased the production of stripper wells up to 15 barrels per day from 1 barrel per day.

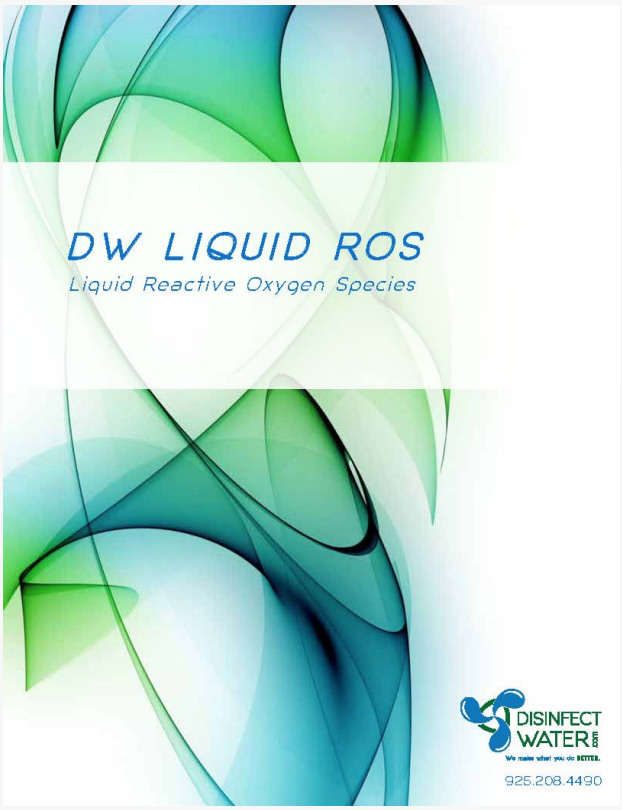
MARTINEZ, CALIFORNIA, UNITED STATES, October 31, 2017 /EINPresswire.com/ -- DisinfectWater, working with an independent private oil service firm from Texas, recently conducted a field study on four different low producing oil wells (stripper wells) in Texas.

These wells were generating only one to two barrels of oil per day. Using several different methods of injecting DW Liquid ROS into the well, the production increased up to 15 barrels per day for five days and then dropped to 10 barrels per day for two weeks. The service operator then injected five gallons of DW Liquid ROS per day into the well casing.

The well continued to generate 15 barrels for every 12 hours of operations. Hydrogen sulfide was eliminated in the gas phase and liquid phase. Paraffin and asphaltenes, known to be a problem in the system, were minimized. DW Liquid ROS changed the surface structure of paraffin and asphaltenes so that it would not form a deposit and create clogs in the systems. The produced water from the operation was tested for iron, bacteria, and hydrogen sulfide. The results showed no detectable levels of iron, bacteria, and hydrogen sulfide. It was observed that the produced water looked cleaner than the water being produced prior to treatment.



The power of Reactive Oxygen Species



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Stripper wells are defined as oil (or gas) wells with an average production of 15 barrels or less per day

of oil or gas equivalent. The average production from a stripper well as stated in a study conducted by the National Stripper Well Association (NWSA) is one to two barrels per day.

In the U.S., it is estimated by NWSA that there are over 770,000 stripper wells operating that contribute 11.3% of the U.S. oil production and 8.3% of U.S. gas production. Most of the stripper wells sit on untapped resources. It is estimated between 50-70% of the oil beneath the stripper well cannot be removed for three reasons — pressure, permeability and paraffin.

DW Liquid ROS is great for helping Oil Wells

As these fields begin to produce oil or gas at the wellbore, the pressure begins to drop, resulting in lower production. With the amount of thermal energy (heat) entering the wellbore, you see a drop in production related to permeability. The oil in the well begins to cross its cloud point threshold, and paraffin crystals start to precipitate as the oil moves from the pore space to the wellbore opening.

If a well's flowrate is high enough, the continuing thermal mass of the oil entering the wellbore can keep the paraffin in solution, so that the buildup on the wellbore is kept to a minimum. If the flow rate decreases, the paraffin will create a thick deposit in the wellbore which will further decrease the flow of oil. An additional factor in reduced production is the biofilm in the wellbore and formation. The biofilm will provide additional sites for paraffin to deposit. A biofilm generates a sticky material called extracellular polymeric substance (EPS). The EPS attracts the paraffin crystals, asphaltenes and iron sulfide to form a deposit on any surface.

DW Liquid ROS is a new technology that uses reactive oxygen species (ROS) to form a strong oxidizing agent that quickly reacts with hydrogen sulfide, iron sulfide, biofilm, and bacteria. It is also very effective as an emulsion breaker and micro-flocculent in the treatment of produced water. It can be used to destabilize paraffin and asphaltenes.
DW Liquid ROS is a green technology and is environmental friendly. DW Liquid ROS generates a high concentration of hydroxyl radical ions that react to form mineral oxides that are inert.

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