

LITTLE RIVER, SC – (BUSINESS WIRE) -- New patent-pending technology will change the oil and gas industry.

PCT Ltd. and Nano Gas™ Technologies are pleased to announce a joint patent-pending technology that will provide an eco-friendly solution to the oil and gas industry. Testing has been ongoing for many months using PCT Ltd.'s Catholyte only with excellent results reported by an independent lab Intertek. Water to gas ratio (WOR) started out 99/1 before Catholyte was added. Testing was done using various parameters which increased the WOR to 60/40. Nano Gas™ nanobubbles were added, and a 20% increase was seen at WOR 48/52. Ongoing testing continues, and PCTL/NANO GAS™ feels another 20% is attainable.

PCTL/NANO GAS™ new product line is called Nanolyte . The fluids come in two versions: Nano-Catholyte and Nano-Hydrolyte™.

Nano-Hydrolyte™, a biocide, and Nano-Catholyte™- a surfactant, both are 100% environmentally green solutions to the oil industry including EOR, fracking and downhole bacteria control including H2S remediation. Both products are 100% eco-friendly.

Nano-Catholyte™ is a combination of Catholyte-free produced by PCTL which reduces the surface tension of connate water allowing for the release of oil in the formation and NanoBubbles which penetrates the smallest fractures in the formation separating the oil from the water and carries it out of the formation to the surface where it can be processed for sale. Nano-Catholyte™ makes oil recovery easier and more profitable for well owners with no toxic effects to the environment.

Nano-Hydrolyte™ is a combination of Hydrolyte produced by PCTL which is an all-natural hospital biocide that kills 99.999% of pathogens and Nano Gas™ bubbles which penetrate into the smallest fractions of the formation. Nano-Hydrolyte™ makes for a potent biocide for downhole bacteria control, H2S (sour wells) remediation and disinfection of fracking water ponds. Nano-Hydrolyte™ can also be used to kill bacteria prior to well capping.

Maverick Energy has used energy-intensive, steam-assisted gravity drainage (SAGD) to extract heavy oil from their wells in Grassy Creek, MO. Grassy Creek has 11 million barrels of oil in tertiary reserves. When oil prices went down, producing oil with steam was too expensive. Now, Maverick is beginning enhanced oil recovery (EOR) by using Nano-Catholyte™ at a fraction of the cost. Doug Humphreys said: "I've never seen emulsified oil like this from my oil field". Doug also stated with Nano-Catholyte™ Maverick can attain a substantial savings per barrel of produced oil per barrel. Maverick is now expanding testing to his light oil wells in Holdenville, OK and looks forward to adding Nano-Catholyte™ to their service offerings to clients.

SAGD is a popular enhanced oil recovery method in Canada and for all heavy oil. Canada has been struggling with more than 1 trillion liters of the toxic wastewater tailings ponds resulting from SAGD and other heavy oil recovery processes. Dr. David Holcomb of Pentagon Technical Services who holds many oil and gas patents said: "Nano-Hydrolyte™ could change enhanced oil recovery around the world and eliminate toxic oilsands tailings." Because Nano-Hydrolyte™ is 100% eco-green downhole bacteria

control, H<sub>2</sub>S remediation and toxic wastewater disinfection can be accomplished in an environmentally safe way.

PCTL and Nano Gas™ have partnered to provide a mobile process to enhance oil recovery and improve oil industry sustainability. Len Bland, CEO of Nano Gas™ Technologies, said: “We’re excited to partner with PCTL to improve the worldwide oil industry with environmentally effective Nano-Catholyte™ and Nano-Hydrolyte™.

Gary Grieco, President/CEO of PCTL, stated by incorporating Nano Gas technology, we found a process that greatly enhanced our already successful specialty product Catholyte. Once we received third-party verification of the unique properties of our fluids, we began field testing. The results have been so positive that we filed a patent pending with the U.S. Patent Office.

We are about to embark upon final field tests, which should be completed by the middle of December. Once completed, we will begin Beta testing with a number of oil production companies that have already expressed their desire to use the process on some of their production.

**About PCT LTD:**

PCT LTD ("PCTL") focuses its business on acquiring, developing and providing sustainable, environmentally safe disinfecting, cleaning and tracking technologies. The company acquires and holds rights to innovative products and technologies, which are commercialized through its wholly-owned operating subsidiary, Paradigm Convergence Technologies Corporation (PCT Corp). The Company established entry into its target markets with commercially viable products in the United States and now continues to gain market share in the U.S. and U.K.

**Forward-Looking Statements:**

This press release contains "forward-looking statements" as defined in Section 27A of the Securities Act of 1933, as amended, and Section 21B of the Securities Exchange Act of 1934, as amended. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, goals, assumptions or future events or performance are not statements of historical fact and may be "forward-looking statements."

Such statements are based on expectations, estimates and projections at the time the statements are made that involve a number of risks and uncertainties, which could cause actual results or events to differ materially from those presently anticipated. Such statements involve risks and uncertainties, including but not limited to: PCTL's ability to raise sufficient funds to satisfy its working capital requirements; the ability of PCTL to execute its business plan; the anticipated results of business contracts with regard to revenue; and any other effects resulting from the information disclosed above; risks and effects of legal and administrative proceedings and government regulation; future financial and operational results; competition; general economic conditions; and the ability to manage and continue growth. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual outcomes may vary materially from those indicated. Important factors that could cause actual results to differ materially from the forward-looking statements PCTL makes in this press release include market conditions and those set forth in reports or documents it files from time to time with the SEC. PCTL undertakes no obligation to revise or update such statements to reflect current events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

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