

American Companies Jointly Develop Nanotech-enabled Enhanced Oil Recovery Solution



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Nissan Chemical America Corporation and Messer Americas have joined efforts to enhance downhole performance by combining nanoActiv® with a carbon dioxide (CO₂) or nitrogen (N₂) application method.

Nissan Chemical America Corporation ([NCA](#)) has partnered with industrial gas supplier, [Messer Americas](#), to improve oil and gas production. Their collaborative treatment, [nanoActiv HnP](#)—an energized, fast turnaround style “Huff ‘n Puff” —incorporates nanoActiv with a carbon dioxide (CO₂) or nitrogen (N₂) gas application method to enhance oil and gas recovery.

nanoActiv HnP powered by Messer Americas, a BOOST-EOR chemical composition solution, enables the recovery of hydrocarbons to be accomplished faster, more completely, most cost-effectively and with longer efficacy than existing options on the market today.

According to Messer Americas’ oil and gas experts, a recent Woodford formation well – treated with nanoActiv HnP powered by Messer Americas’ nitrogen – continues to experience sustained daily gas production levels 120 percent greater than its originally completed initial daily production levels.

Another well in the Buda formation continues to produce three times more bopd and 3.3 times MCFD more, 690 days post-treatment. The production improvements provided by the nanoActiv HnP treatments can give operators a reliable, cost-effective alternative and provide a practical, economically viable solution for full field re-development enhanced recovery.

The innovative partnership combines Nissan Chemical’s excellence and decades of experience in industrial nanotechnology with Messer's expertise in gas interaction, job design

and technical services in oil and gas well remediation and restimulation, to maximize production results in today's market. The two companies work together to screen candidates and prescribe a recommended treatment plan.

Read the [original article](#) on World Oil.